

35-3936-60-OU

V0

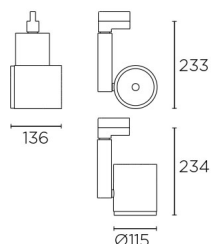


MACH 3 Spotlight

Description

Spotlight MACH 3 38.6W 3000K CRI 80 Black 3321lm

	Finish	Material
Structure	Black	Aluminium
Diffuser	Transparent	Glass



TECHNICAL CHARACTERISTICS

Light source

Light source: LED CREE
 Light source power (W): 38.6W
 Luminaire total power (W): 40.7W
 Color temperature: LED warm-white
 3000K
 CRI: 80
 Photobiological risk: RG1
 Real Lumen: 3321
 Qty Leds: 1
 Lm/Real W: 82
 Life Time: 50.000h L80B10
 Bin / Grup: 30H
 MacAdam steps: 2
 UGR: 19

GEAR

Brand: HEP
 Gear included: Yes, electronic
 Voltage / Frequency:
 100-240VAC/50-60Hz
 Power Factor: 0.90

Luminaire

Warranty: 2 Years

Logistics

EAN Code: 8435381443153
 Net Weight (Kg): 1.5
 Weight in Kg (packaged): 1.82
 Packing: 170 x 140 x 280
 Masterbox: 8

The photograph may not match the reference exactly. Please read the product description to identify the finish.

OPTIONAL ACCESSORIES



ACT-9105-14-00

White trimless surface installation kit

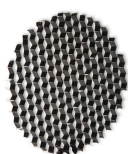
Structure material: ABS
Dimensions: NA x NA x NA
Net Weight (Kg): 0.09



ACT-9106-14-00

Recessed box

Structure material: ABS
Dimensions: NA x NA x NA
Net Weight (Kg): 0.1



71-3896-60-00

Honeycomb panel accessory for Mach3 Big

Structure material: Aluminium
Dimensions: NA x NA x NA
Net Weight (Kg): 0.01



71-3897-60-00

Visual comfort accessory for Mach3 Big

Structure material: PVC
Dimensions: NA x NA x NA
Net Weight (Kg): 0.04



71-5629-14-00

White front ring accessory for Mach3 Big

Structure material: Polycarbonate
Dimensions: 113 x NA x 24
Net Weight (Kg): 0.05



71-5643-60-00

Elliptical diffuser accessory for Mach3 Big

Structure material: Polycarbonate
Dimensions: 98 x NA x 15
Net Weight (Kg): 0.02



71-5953-14-00

White trimless recessed installation kit

Structure material:
Dimensions: NA x NA x NA
Net Weight (Kg): 0.19



71-5953-60-00

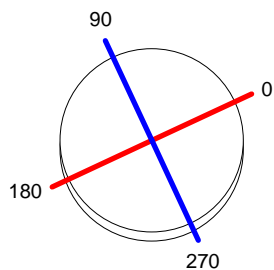
Black trimless recessed installation kit

Structure material:
Dimensions: NA x NA x NA
Net Weight (Kg): 0.19

Luminaire		Measur.		Lamp	
Code	35-3936	Code	35-3939	Code	L3936 38.6W 80 3000K
Name	Projector MACH 3 830 55° 38.6W	Name	Projector MACH 3 830 55° 38.6W	Number	1
Line	Eulumdat	Date	16-10-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2907.18 lm
Maximum value	3719.33 cd	Position	C=0.00 G=0.00	Double Symmetrical	
Round Luminaire	Diam.	115 mm	Height	135 mm	
Round Luminous Area	Diam.	110 mm	Height	0 mm	
Horizontal Luminous Area	0.009503 m2	Emitting area on Plane 180°	0.000000 m2		
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2		
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.002299 m2		
Symmetry Type	Double Symmetrical	Maximum Gamma Angle	90		
Measurement Distance	0.00	Measurement Flux	2907.18 lm		
Operator	Asselum T2	Source voltage			
Temperature	25.00 °C	Source current			
Humidity	60.00 %	Photocell			
Notes					

Luminaire Lamps						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
Eulumdat	L3936 38.6W 80 3000K	L3936 38.6W 80 3000K - 39.00 W	2907.18	39.00	1	
C.I.E.	97	100 100 100 100				D DIN 5040
F UTE	--					A60 B NBN

Diam=115mm



C Halfplanes

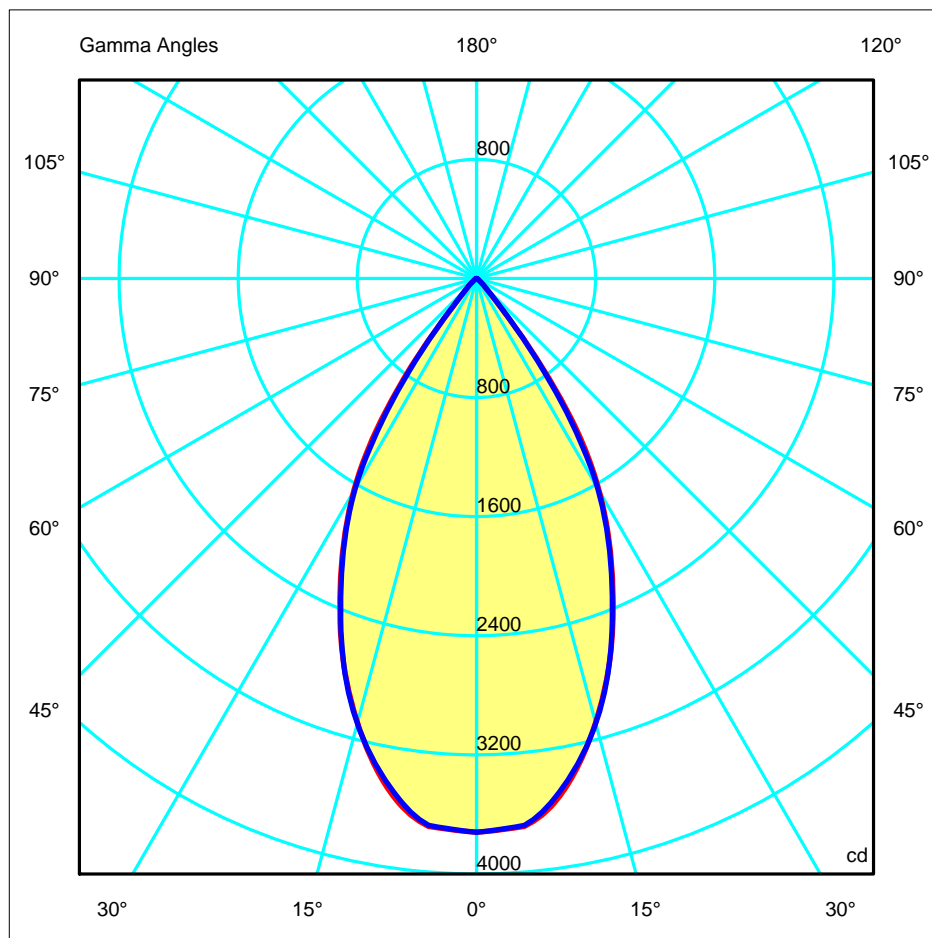
180.0 — 0.0

270.0 — 90.0

ULOR 0.00 %

DLOR 100.00 %

RN 0.00 %

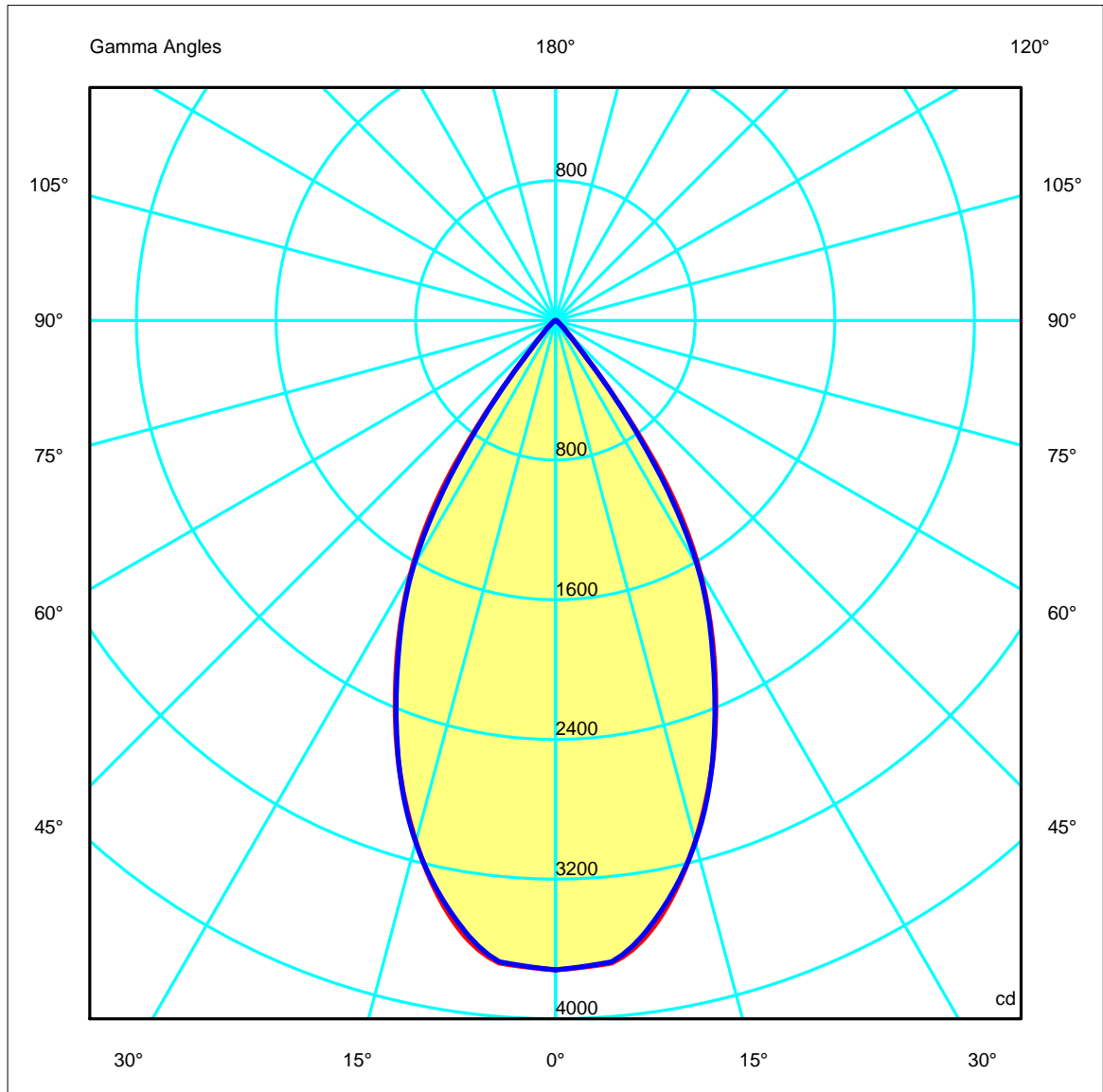
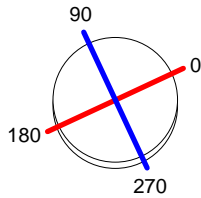


Luminaire		Measur.		Lamp	
Code	35-3936	Code	35-3939	Code	L3936 38.6W 80 3000K
Name	Projector MACH 3 830 55° 38.6W	Name	Projector MACH 3 830 55° 38.6W	Number	1
Line	Eulmdat	Date	16-10-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2907.18 lm

Diam=115mm

C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0

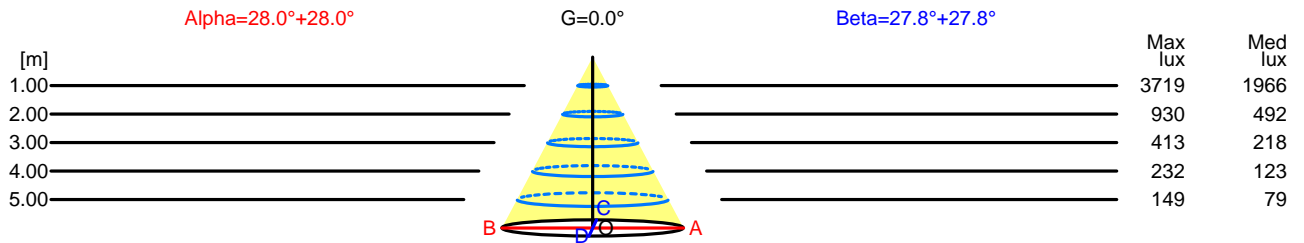


Luminaire		Measur.		Lamp	
Code	35-3936	Code	35-3939	Code	L3936 38.6W 80 3000K
Name	Projector MACH 3 830 55° 38.6W	Name	Projector MACH 3 830 55° 38.6W	Number	1
Line	Eulumdat	Date	16-10-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2907.18 lm

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.53	1.06	1.59	2.13	2.66	OC	0.53	1.06	1.58	2.11	2.64
OB	0.53	1.06	1.59	2.13	2.66	OD	0.53	1.06	1.58	2.11	2.64

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	3719.33	3693.99	3087.99	2150.19	993.73	85.54	20.88	7.49	1.72	0.36
OB	3719.33	3693.99	3087.99	2150.19	993.73	85.54	20.88	7.49	1.72	0.36
OC	3719.33	3686.85	3094.33	2134.47	928.21	91.39	21.79	7.55	1.72	0.34
OD	3719.33	3686.85	3094.33	2134.47	928.21	91.39	21.79	7.55	1.72	0.34



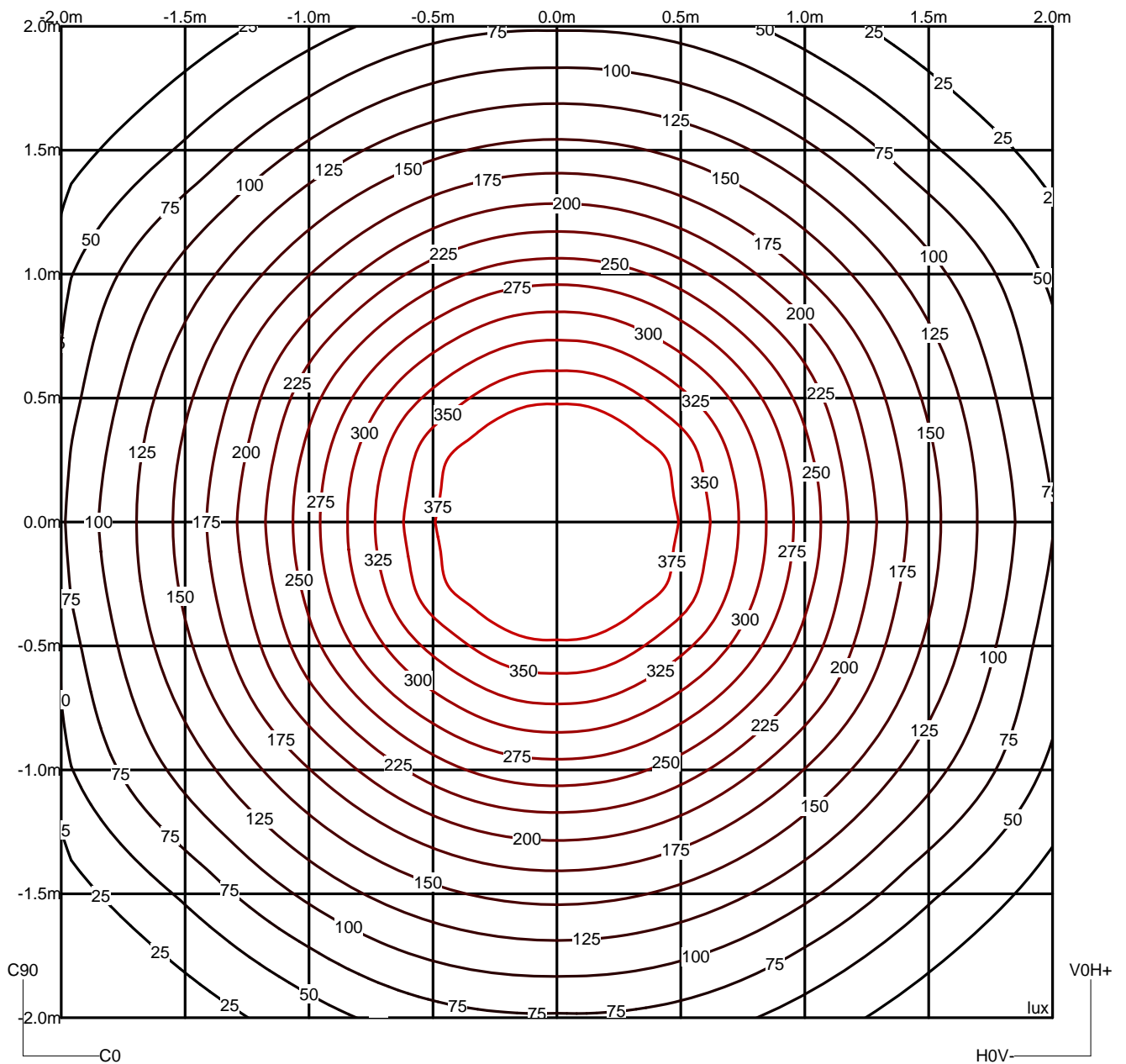
H[m]	D[m]	Max lux	Med lux	Alpha=28.0°+28.0°	G=0.0
1.00	1.06	3719	1966		
2.00	2.13	930	492		
3.00	3.19	413	218		
4.00	4.25	232	123		
5.00	5.31	149	79		

H[m]	D[m]	Max lux	Med lux	Beta=27.8°+27.8°	G=0.0
1.00	1.06	3719	1966		
2.00	2.11	930	492		
3.00	3.17	413	218		
4.00	4.23	232	123		
5.00	5.28	149	79		

Luminaire	Measur.	Lamp
Code 35-3936	Code 35-3939	Code L3936 38.6W 80 3000K
Name Projector MACH 3 830 55° 38.6W	Name Projector MACH 3 830 55° 38.6W	Number 1
Line Eulumat	Date 16-10-2014	Position
Efficiency 100.00%	Coordinate system CG	Total Flux 2907.18 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire

Code 35-3936
 Name Projector MACH 3 830 55° 38.6W
 Line Eulumdat

Measur.

Code 35-3939
 Name Projector MACH 3 830 55° 38.6W
 Date 16-10-2014

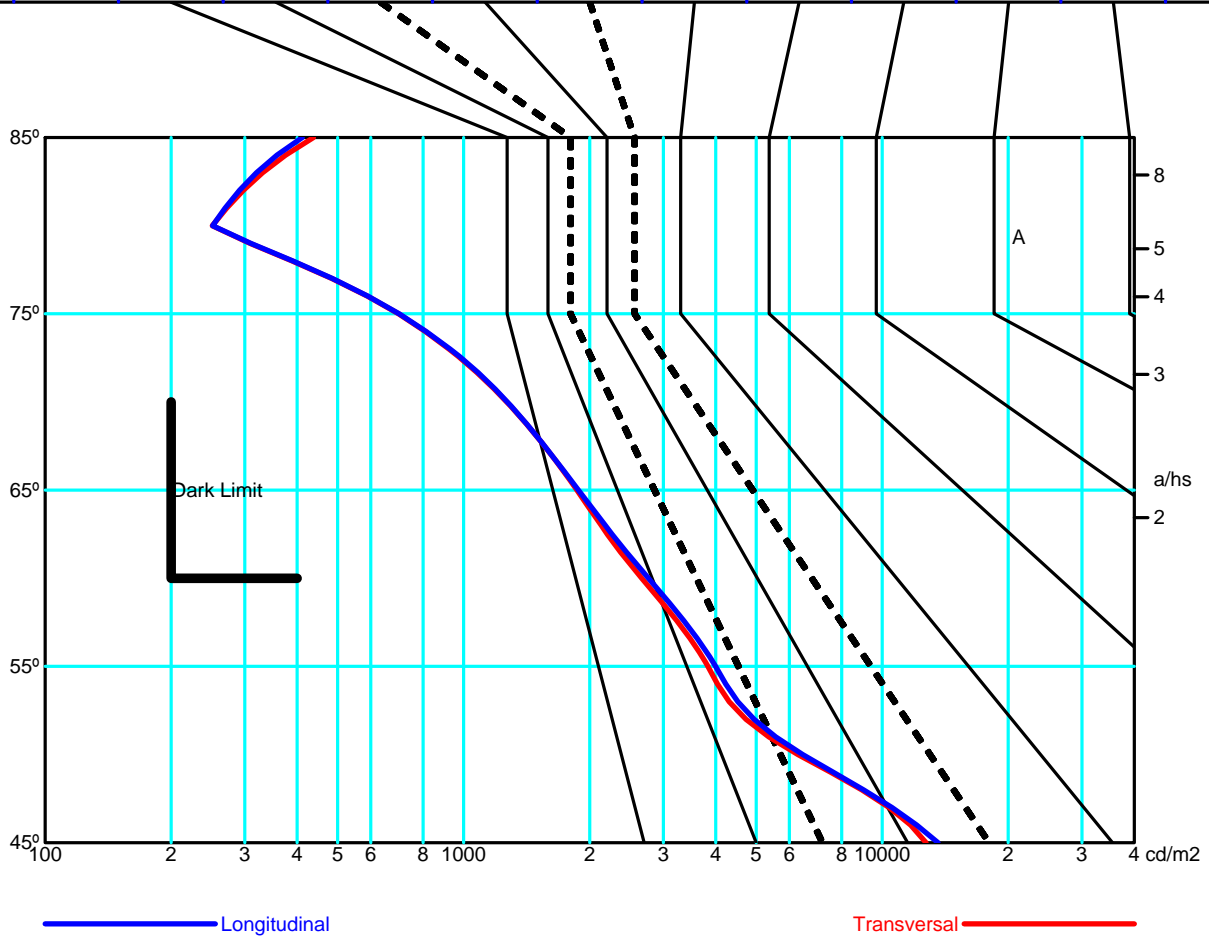
Lamp

Code L3936 38.6W 80 3000K
 Number 1
 Position

Efficiency 100.00% Coordinate system CG Total Flux 2907.18 lm

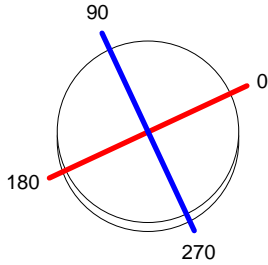
		Average Luminance [cd/m ²]										
		0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		12731	6285	3831	2661	1864	1267	698	251	438	---	
90.0°		13601	6453	3997	2762	1880	1272	701	251	412	---	

Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300				1.15	
B	1		2000	1500	1000	750	500	<300			1.5	
C					2000		1000	500	<300		1.85	
D	2						2000	1000	500	<300	2.2	
E	3							2000	1000	500	<300	2.55

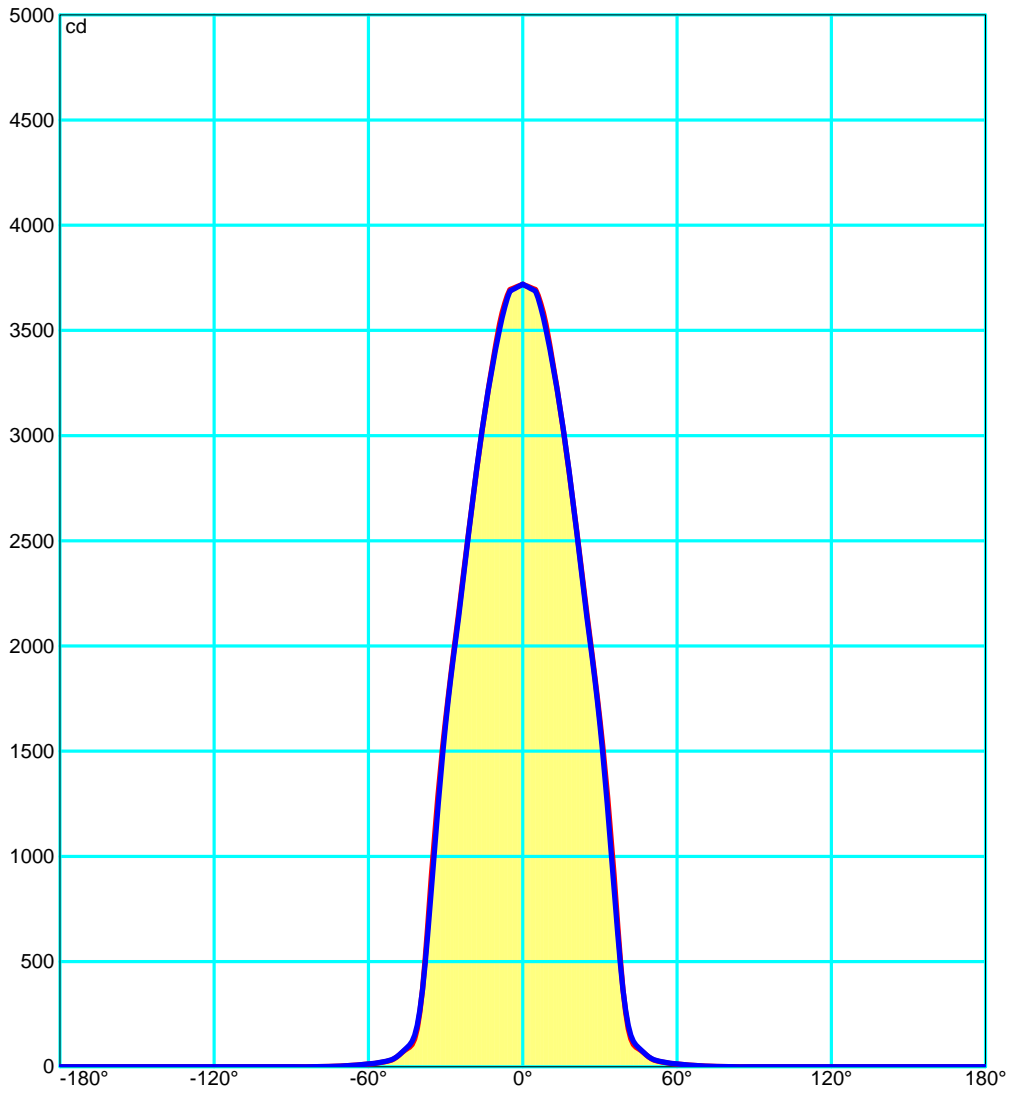
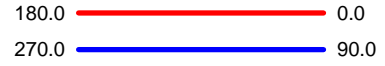


Luminaire		Measur.		Lamp	
Code	35-3936	Code	35-3939	Code	L3936 38.6W 80 3000K
Name	Projector MACH 3 830 55° 38.6W	Name	Projector MACH 3 830 55° 38.6W	Number	1
Line	Eulumdat	Date	16-10-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2907.18 lm

Diam=115mm



C Halfplanes



Luminaire	Measur.	Lamp
Code 35-3936	Code 35-3939	Code L3936 38.6W 80 3000K
Name Proyector MACH 3 830 55° 38.6W	Name Proyector MACH 3 830 55° 38.6W	Number 1
Line Eulumdat	Date 16-10-2014	Position
Efficiency 100.00%	Coordinate system CG	Total Flux 2907.18 lm

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	19.5	20.2	19.8	20.4	20.3	19.3	19.9	19.5	20.1	20.3
x=2H y=3H	19.4	20.0	19.7	20.2	20.2	19.1	19.7	19.4	20.0	20.2
x=2H y=4H	19.3	19.9	19.6	20.1	20.1	19.1	19.6	19.4	19.9	20.1
x=2H y=6H	19.3	19.8	19.6	20.1	20.1	19.0	19.5	19.3	19.8	20.1
x=2H y=8H	19.2	19.7	19.6	20.0	20.1	19.0	19.5	19.3	19.7	20.1
x=2H y=12H	19.2	19.6	19.5	19.9	20.0	18.9	19.4	19.3	19.7	20.0
x=4H y=2H	19.3	19.9	19.6	20.1	20.1	19.1	19.6	19.4	19.9	20.1
x=4H y=3H	19.2	19.7	19.5	20.0	20.0	18.9	19.4	19.3	19.7	20.0
x=4H y=4H	19.1	19.5	19.5	19.9	19.9	18.9	19.3	19.2	19.6	19.9
x=4H y=6H	19.0	19.4	19.4	19.7	19.9	18.8	19.1	19.2	19.5	19.9
x=4H y=8H	19.0	19.3	19.4	19.7	19.8	18.7	19.0	19.2	19.4	19.8
x=4H y=12H	19.0	19.2	19.4	19.6	19.8	18.7	19.0	19.1	19.4	19.8
x=8H y=4H	19.0	19.3	19.4	19.7	19.8	18.7	19.0	19.2	19.4	19.8
x=8H y=6H	18.9	19.2	19.4	19.6	19.7	18.7	18.9	19.1	19.3	19.7
x=8H y=8H	18.9	19.1	19.3	19.5	19.7	18.6	18.8	19.1	19.2	19.7
x=8H y=12H	18.8	19.0	19.3	19.4	19.7	18.6	18.7	19.0	19.2	19.7
x=12H y=4H	19.0	19.2	19.4	19.6	19.8	18.7	19.0	19.1	19.4	19.8
x=12H y=6H	18.9	19.1	19.3	19.5	19.7	18.6	18.8	19.1	19.2	19.7
x=12H y=8H	18.8	19.0	19.3	19.4	19.7	18.6	18.7	19.0	19.2	19.7

Luminaire	Measur.	Lamp
Code 35-3936	Code 35-3939	Code L3936 38.6W 80 3000K
Name Proyector MACH 3 830 55° 38.6W	Name Proyector MACH 3 830 55° 38.6W	Number 1
Line Eulumdat	Date 16-10-2014	Position

Efficiency 100.00% Coordinate system CG Total Flux 2907.18 lm

Total Flux=2907.18 Luminaire Flux=2907.17

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.72	0.76	0.81	0.85	0.87	0.92	0.95	0.97	0.99	1.00	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

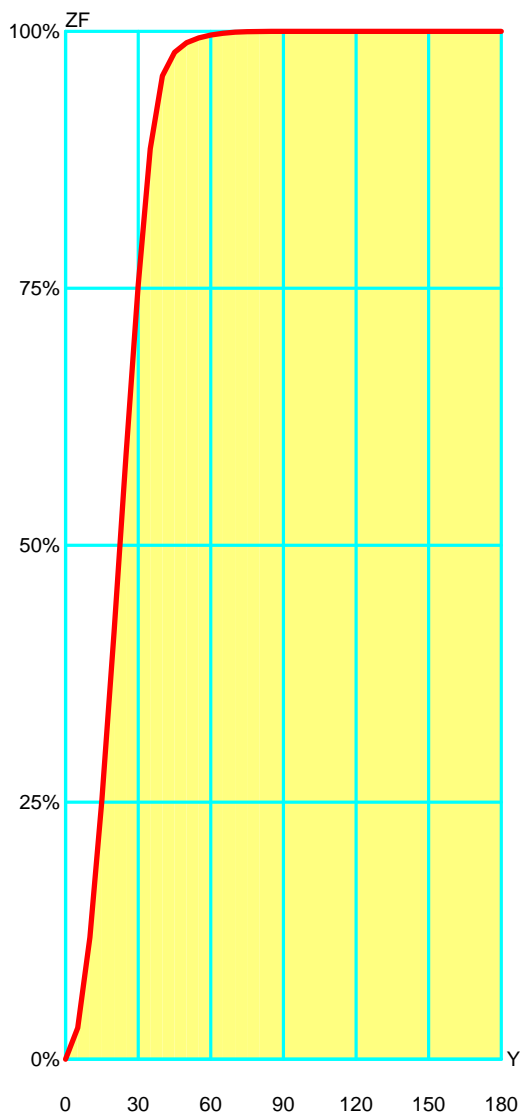
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	119	415	753	957	989	996	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

97 100 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	99.99969 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	--	DLOR	99.99969 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	30.48	30.48	3.05 %	3.05 %
10°	88.05	118.52	8.80 %	11.85 %
15°	133.90	252.43	13.39 %	25.24 %
20°	162.98	415.41	16.30 %	41.54 %
25°	172.98	588.39	17.30 %	58.84 %
30°	165.02	753.40	16.50 %	75.34 %
35°	132.30	885.71	13.23 %	88.57 %
40°	70.90	956.61	7.09 %	95.66 %
45°	23.01	979.62	2.30 %	97.96 %
50°	9.25	988.87	0.92 %	98.89 %
55°	4.70	993.57	0.47 %	99.36 %
60°	2.77	996.34	0.28 %	99.63 %
65°	1.72	998.07	0.17 %	99.81 %
70°	1.02	999.09	0.10 %	99.91 %
75°	0.55	999.64	0.06 %	99.96 %
80°	0.22	999.86	0.02 %	99.99 %
85°	0.07	999.94	0.01 %	99.99 %
90°	0.06	1000.00	0.01 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

