

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E395852

Luminaire Tested: **H600-1636BA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: E395852
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600-1636BA
Description: HALO RECESSED INC. COILEX BAFFLE, 0 DEG. TILT
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

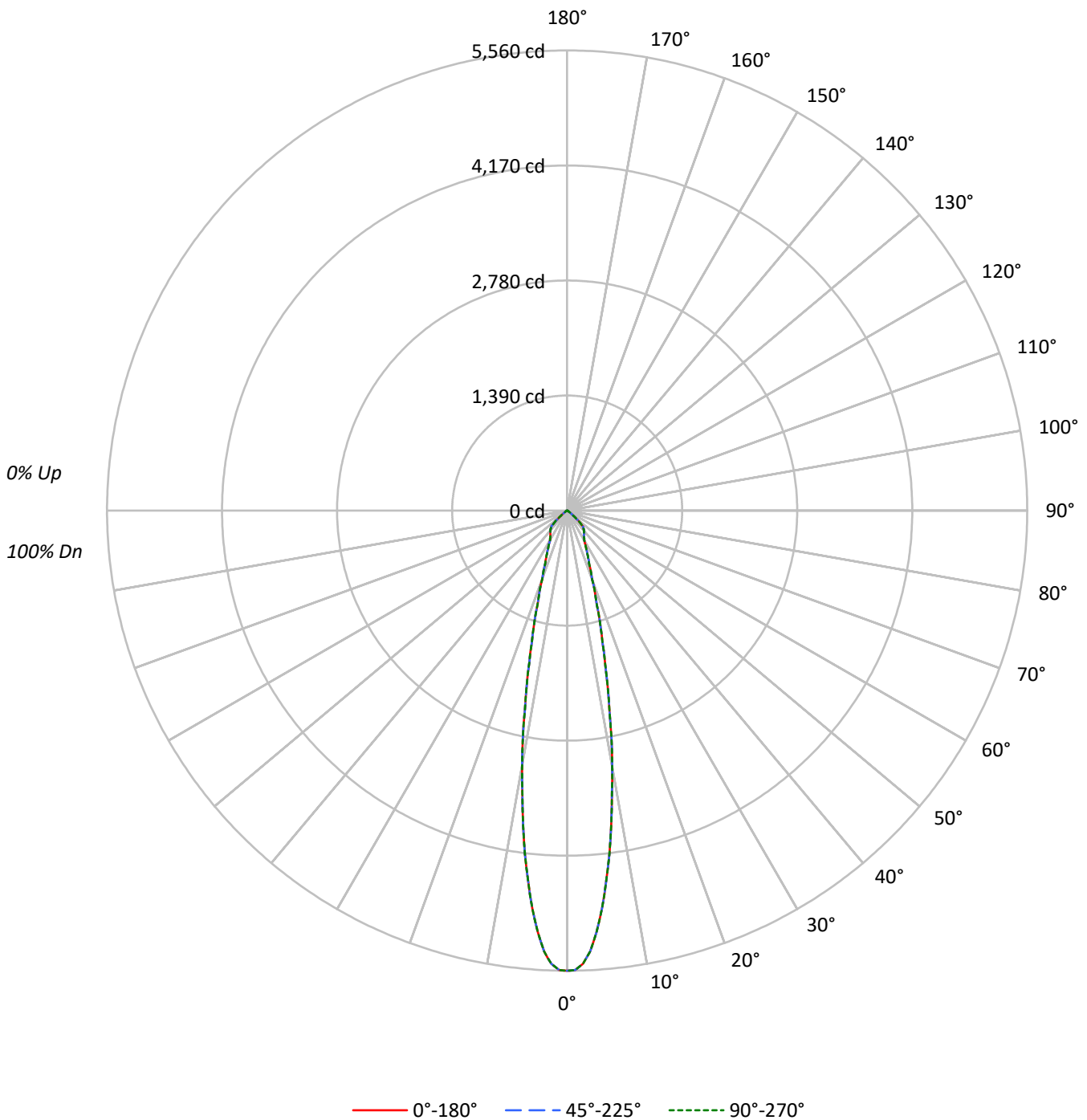
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1621.4 lumens
Efficiency: 85.3%
Efficacy: 10.8 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.39
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	102	102	102	102	99	99	99	99	95	95	95		91	91	91		87	87	87	85
1	97	95	93	91	95	93	91	89	90	88	87		86	85	84		83	83	82	80
2	93	89	85	83	91	87	84	82	84	82	80		82	80	78		80	78	76	75
3	88	83	79	76	87	82	78	75	80	77	74		78	75	73		76	74	72	70
4	84	78	74	70	83	77	73	70	75	72	69		74	71	68		72	70	68	66
5	80	74	69	66	79	73	69	65	72	68	65		70	67	64		69	66	64	63
6	77	70	65	62	76	69	65	62	68	64	61		67	63	61		66	63	60	59
7	74	67	62	58	73	66	61	58	65	61	58		64	60	58		63	60	57	56
8	71	63	59	56	70	63	59	55	62	58	55		61	58	55		60	57	55	54
9	68	61	56	53	67	60	56	53	59	56	53		59	55	53		58	55	52	51
10	66	58	54	51	65	58	54	51	57	53	50		57	53	50		56	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	403.8	24.9	21.3
10°-20°	473.7	29.2	24.9
20°-30°	272.4	16.8	14.3
30°-40°	224.2	13.8	11.8
40°-50°	183.7	11.3	9.7
50°-60°	41.6	2.6	2.2
60°-70°	14.3	0.9	0.8
70°-80°	6.3	0.4	0.3
80°-90°	1.4	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1149.9	70.9	60.5
0°-40°	1374.1	84.7	72.3
0°-60°	1599.3	98.6	84.2
0°-90°	1621.4	100.0	85.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1621.4	100.0	85.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5560	5560	5560	5560	5560	
5°	4827	4827	4827	4827	4827	404
15°	1651	1651	1651	1651	1651	474
25°	576	576	576	576	576	272
35°	357	357	357	357	357	224
45°	269	269	269	269	269	184
55°	32	32	32	32	32	42
65°	14	14	14	14	14	14
75°	6	6	6	6	6	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5560	5560	5560	5560	5560	5560	5560	5560	5560
1°	5552	5552	5552	5552	5552	5552	5552	5552	5552
2°	5480	5480	5480	5480	5480	5480	5480	5480	5480
3°	5333	5333	5333	5333	5333	5333	5333	5333	5333
4°	5104	5104	5104	5104	5104	5104	5104	5104	5104
5°	4827	4827	4827	4827	4827	4827	4827	4827	4827
6°	4511	4511	4511	4511	4511	4511	4511	4511	4511
7°	4183	4183	4183	4183	4183	4183	4183	4183	4183
8°	3833	3833	3833	3833	3833	3833	3833	3833	3833
9°	3459	3459	3459	3459	3459	3459	3459	3459	3459
10°	3134	3134	3134	3134	3134	3134	3134	3134	3134
11°	2799	2799	2799	2799	2799	2799	2799	2799	2799
12°	2463	2463	2463	2463	2463	2463	2463	2463	2463
13°	2173	2173	2173	2173	2173	2173	2173	2173	2173
14°	1896	1896	1896	1896	1896	1896	1896	1896	1896
15°	1651	1651	1651	1651	1651	1651	1651	1651	1651
17.5°	1196	1196	1196	1196	1196	1196	1196	1196	1196
20°	889	889	889	889	889	889	889	889	889
22.5°	696	696	696	696	696	696	696	696	696
25°	576	576	576	576	576	576	576	576	576
27.5°	484	484	484	484	484	484	484	484	484
30°	413	413	413	413	413	413	413	413	413
32.5°	379	379	379	379	379	379	379	379	379
35°	357	357	357	357	357	357	357	357	357
37.5°	334	334	334	334	334	334	334	334	334
40°	317	317	317	317	317	317	317	317	317
45°	269	269	269	269	269	269	269	269	269
50°	103	103	103	103	103	103	103	103	103
55°	32	32	32	32	32	32	32	32	32
60°	21	21	21	21	21	21	21	21	21
65°	14	14	14	14	14	14	14	14	14
70°	9	9	9	9	9	9	9	9	9
75°	6	6	6	6	6	6	6	6	6
80°	3	3	3	3	3	3	3	3	3
85°	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)