

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210121

Luminaire Tested: **PR820D010 - PR8M12MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR820D010 - PR8M12MDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2107.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

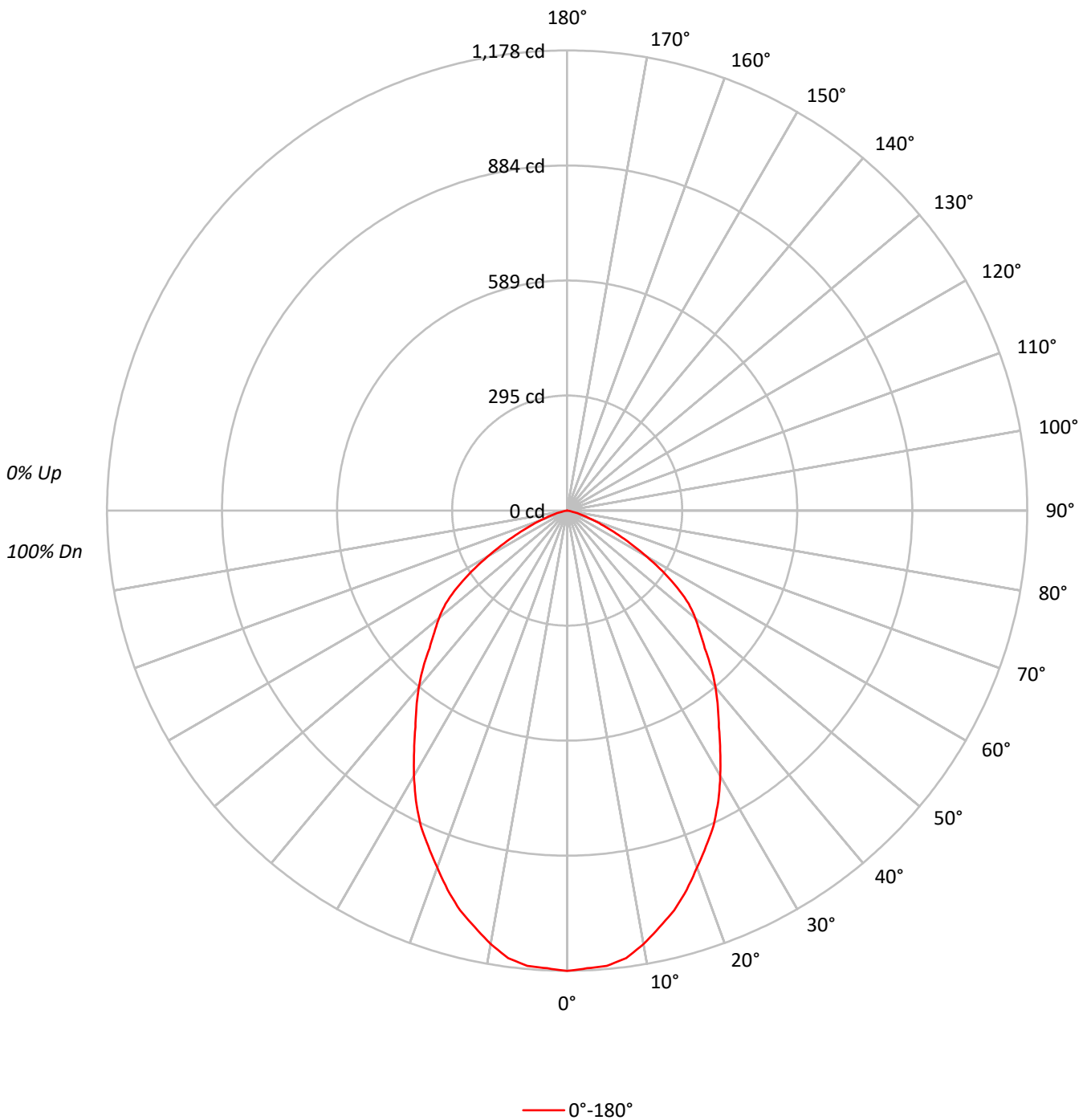
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	67	62		70	65	61	60
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36338
5°	36213
10°	35270
15°	33814
20°	31903
25°	30213
30°	27916
35°	25489
40°	23794
45°	21735
50°	20552
55°	18505
60°	14462
65°	10076
70°	6392
75°	3610
80°	1012
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	5.2
10°-20°	296.7	14.1
20°-30°	406.4	19.3
30°-40°	426.0	20.2
40°-50°	388.3	18.4
50°-60°	303.0	14.4
60°-70°	141.1	6.7
70°-80°	35.1	1.7
80°-90°	1.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	813.4	38.6
0°-40°	1239.4	58.8
0°-60°	1930.7	91.6
0°-90°	2107.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1178	
5°	1170	110
15°	1059	297
25°	888	406
35°	677	426
45°	498	388
55°	344	303
65°	138	141
75°	30	35
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1178.4
2.5°	1172.7
5°	1169.9
7.5°	1155.7
10°	1126.4
12.5°	1092.3
15°	1059.2
17.5°	1017.6
20°	972.2
22.5°	929.7
25°	888.0
27.5°	837.9
30°	784.0
32.5°	729.2
35°	677.1
37.5°	633.6
40°	591.1
42.5°	545.7
45°	498.4
47.5°	460.6
50°	428.4
52.5°	392.5
55°	344.2
57.5°	290.3
60°	234.5
62.5°	181.6
65°	138.1
67.5°	100.2
70°	70.9
72.5°	48.2
75°	30.3
77.5°	17.0
80°	5.7
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)