

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: P210340

Luminaire Tested: **PR8R20D010 - PR8M12MDMB - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210340  
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: PR8R20D010 - PR8M12MDMB - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2246.1 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

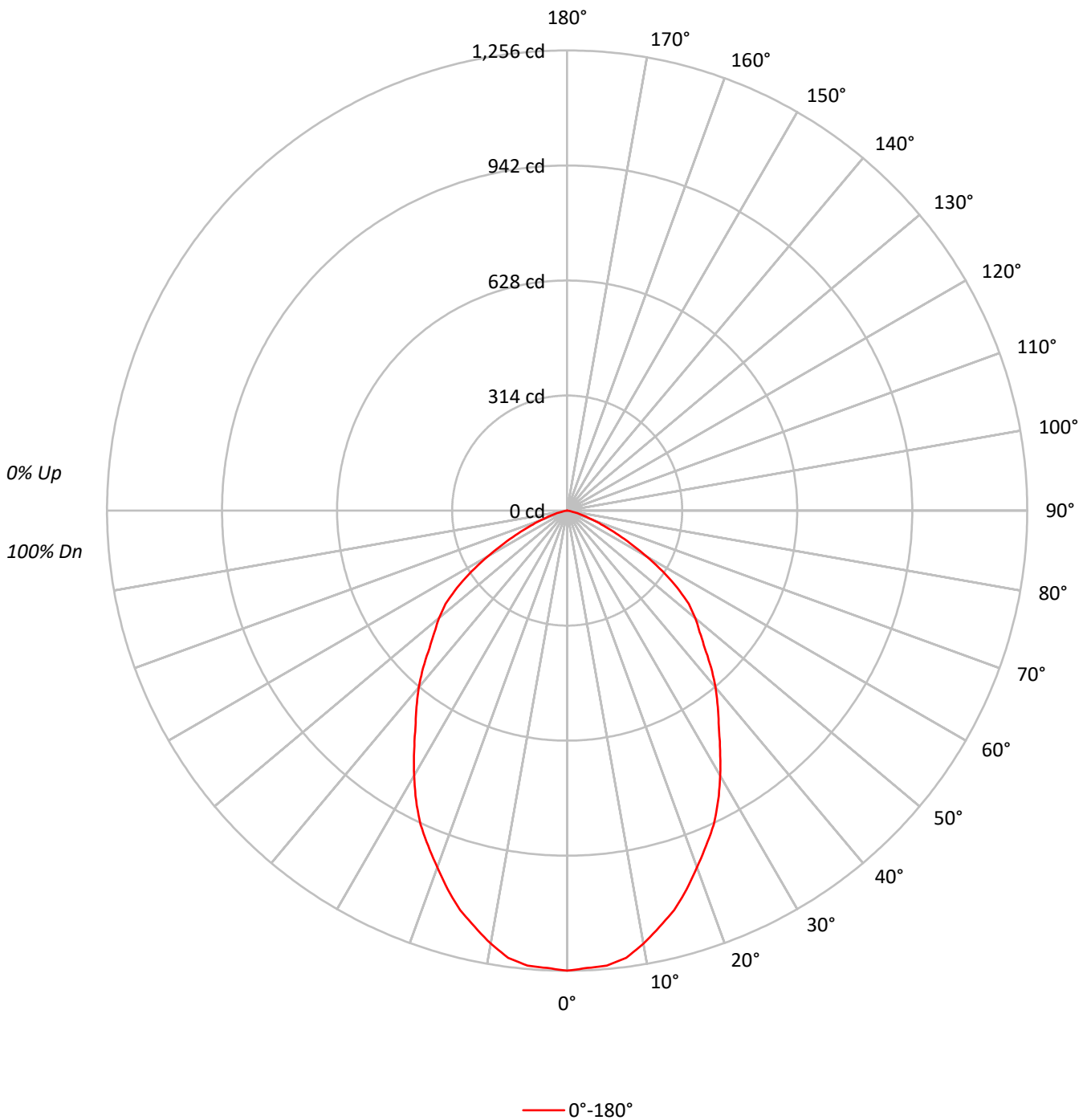
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	38718
5°	38587
10°	37581
15°	36033
20°	33997
25°	32197
30°	29746
35°	27160
40°	25352
45°	23161
50°	21900
55°	19720
60°	15412
65°	10733
70°	6816
75°	3836
80°	1065
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	5.2
10°-20°	316.2	14.1
20°-30°	433.0	19.3
30°-40°	453.9	20.2
40°-50°	413.7	18.4
50°-60°	322.9	14.4
60°-70°	150.3	6.7
70°-80°	37.4	1.7
80°-90°	1.1	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°	866.8	38.6
0°-40°	1320.7	58.8
0°-60°	2057.3	91.6
0°-90°	2246.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1256	
5°	1247	118
15°	1129	316
25°	946	433
35°	722	454
45°	531	414
55°	367	323
65°	147	150
75°	32	37
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1255.6
2.5°	1249.6
5°	1246.6
7.5°	1231.5
10°	1200.2
12.5°	1163.9
15°	1128.7
17.5°	1084.3
20°	1036.0
22.5°	990.6
25°	946.3
27.5°	892.9
30°	835.4
32.5°	777.0
35°	721.5
37.5°	675.2
40°	629.8
42.5°	581.5
45°	531.1
47.5°	490.8
50°	456.5
52.5°	418.2
55°	366.8
57.5°	309.4
60°	249.9
62.5°	193.5
65°	147.1
67.5°	106.8
70°	75.6
72.5°	51.4
75°	32.2
77.5°	18.1
80°	6.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)