

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: P210529

Luminaire Tested: **PR8S20D010 - PR8M12MDMB - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210529  
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: PR8S20D010 - PR8M12MDMB - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1684.7 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

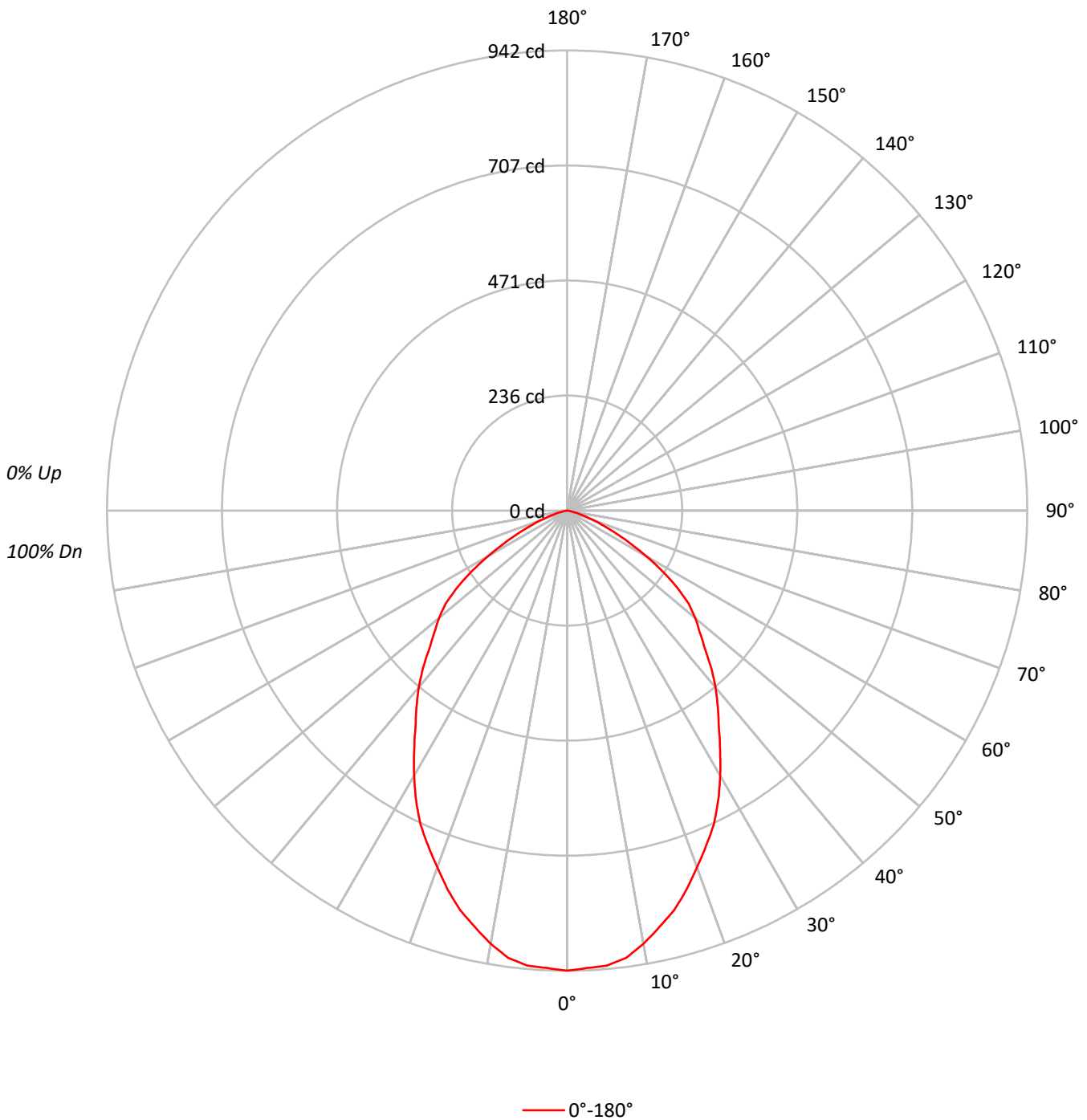
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	29042
5°	28942
10°	28187
15°	27027
20°	25498
25°	24147
30°	22311
35°	20373
40°	19016
45°	17370
50°	16426
55°	14790
60°	11564
65°	8055
70°	5112
75°	2883
80°	799
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	5.2
10°-20°	237.2	14.1
20°-30°	324.8	19.3
30°-40°	340.5	20.2
40°-50°	310.3	18.4
50°-60°	242.2	14.4
60°-70°	112.8	6.7
70°-80°	28.1	1.7
80°-90°	0.8	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°	650.1	38.6
0°-40°	990.6	58.8
0°-60°	1543.1	91.6
0°-90°	1684.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	942	
5°	935	88
15°	847	237
25°	710	325
35°	541	340
45°	398	310
55°	275	242
65°	110	113
75°	24	28
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	941.8
2.5°	937.3
5°	935.0
7.5°	923.7
10°	900.2
12.5°	873.0
15°	846.6
17.5°	813.3
20°	777.0
22.5°	743.0
25°	709.7
27.5°	669.7
30°	626.6
32.5°	582.8
35°	541.2
37.5°	506.4
40°	472.4
42.5°	436.1
45°	398.3
47.5°	368.1
50°	342.4
52.5°	313.7
55°	275.1
57.5°	232.0
60°	187.5
62.5°	145.1
65°	110.4
67.5°	80.1
70°	56.7
72.5°	38.5
75°	24.2
77.5°	13.6
80°	4.5
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)