

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: P210514

Luminaire Tested: **PR8S20D010 - PR8M12MDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210514
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 - PR8M12MDMW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.6 lumens
Efficiency: N/A
Efficacy: 84.0 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

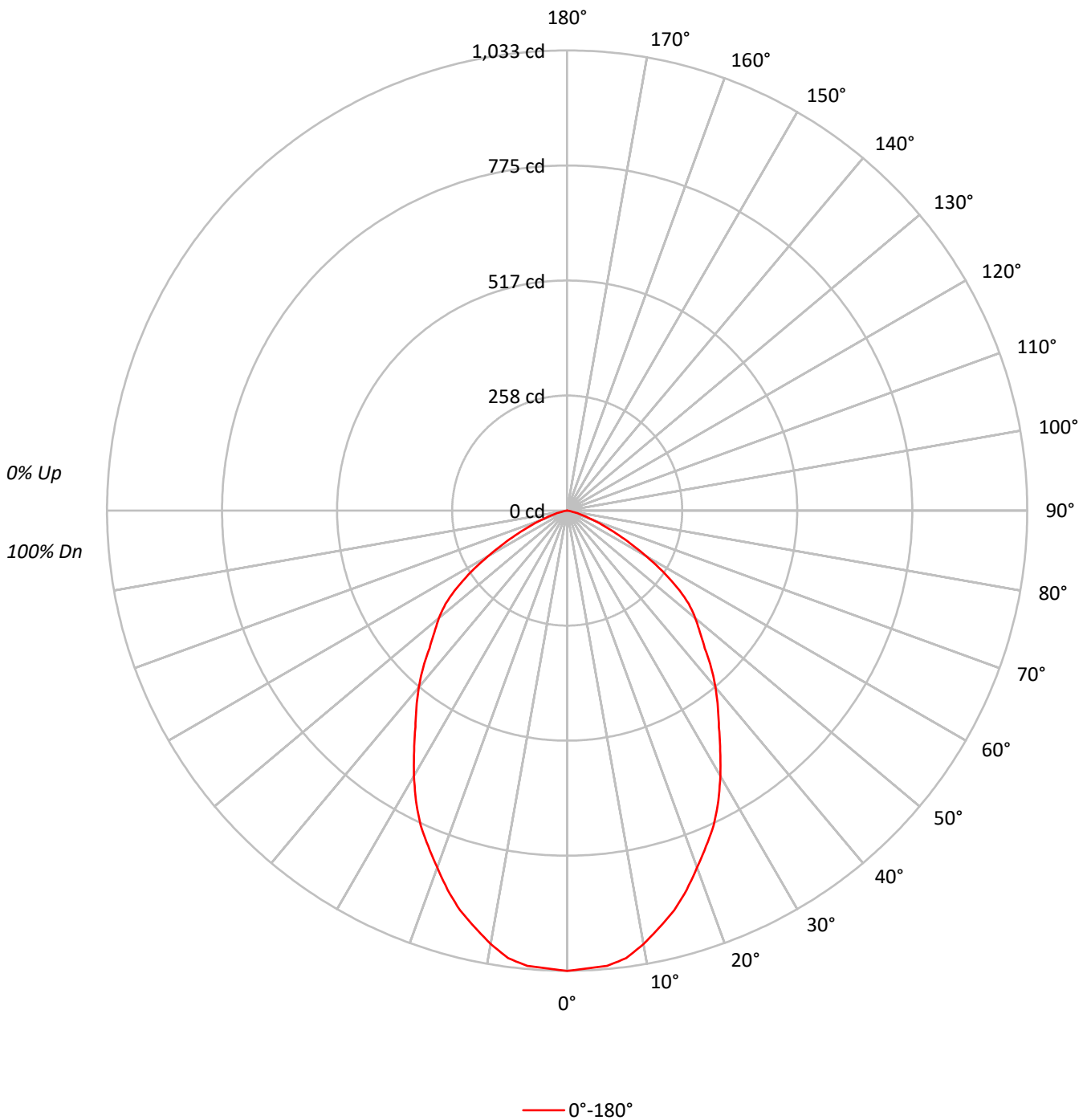
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31866
5°	31759
10°	30930
15°	29654
20°	27978
25°	26498
30°	24483
35°	22353
40°	20868
45°	19062
50°	18023
55°	16231
60°	12686
65°	8836
70°	5608
75°	3157
80°	888
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	5.2
10°-20°	260.2	14.1
20°-30°	356.4	19.3
30°-40°	373.6	20.2
40°-50°	340.5	18.4
50°-60°	265.7	14.4
60°-70°	123.7	6.7
70°-80°	30.8	1.7
80°-90°	0.9	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°	713.4	38.6
0°-40°	1087.0	58.8
0°-60°	1693.2	91.6
0°-90°	1848.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1033	
5°	1026	97
15°	929	260
25°	779	356
35°	594	374
45°	437	341
55°	302	266
65°	121	124
75°	26	31
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1033.4
2.5°	1028.5
5°	1026.0
7.5°	1013.5
10°	987.8
12.5°	958.0
15°	928.9
17.5°	892.4
20°	852.6
22.5°	815.3
25°	778.8
27.5°	734.8
30°	687.6
32.5°	639.5
35°	593.8
37.5°	555.7
40°	518.4
42.5°	478.6
45°	437.1
47.5°	403.9
50°	375.7
52.5°	344.2
55°	301.9
57.5°	254.6
60°	205.7
62.5°	159.2
65°	121.1
67.5°	87.9
70°	62.2
72.5°	42.3
75°	26.5
77.5°	14.9
80°	5.0
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)