

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: P210574

Luminaire Tested: **PR8S20D010 - PR8M12WDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S20D010 - PR8M12WDMB - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE 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: 1670.4 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

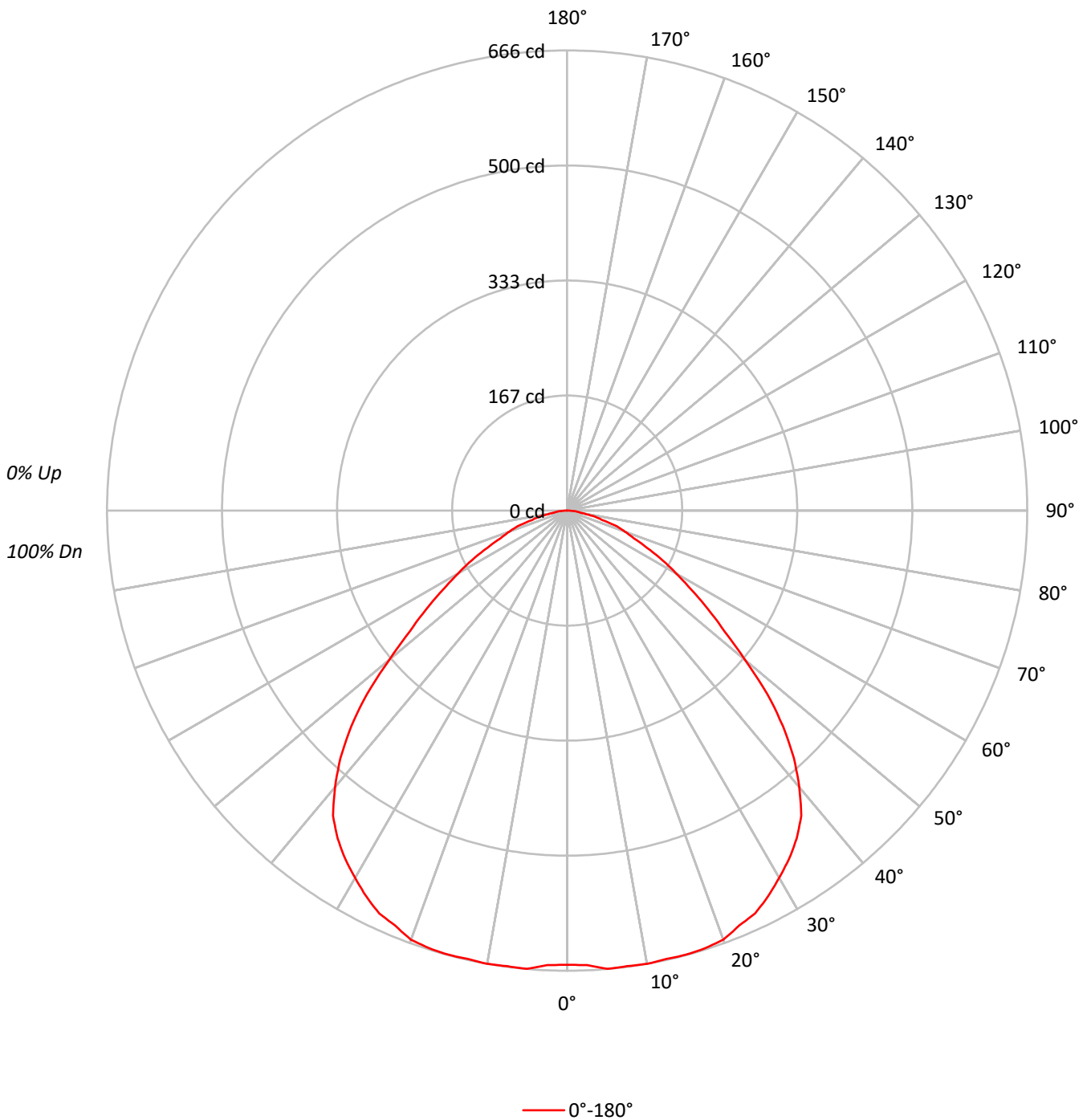
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20269
5°	20609
10°	20857
15°	21242
20°	21691
25°	21888
30°	21855
35°	21800
40°	21045
45°	19271
50°	16100
55°	13387
60°	11249
65°	9296
70°	7997
75°	6267
80°	4351
85°	4564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.8
10°-20°	188.3	11.3
20°-30°	295.7	17.7
30°-40°	360.4	21.6
40°-50°	336.9	20.2
50°-60°	224.7	13.5
60°-70°	129.3	7.7
70°-80°	59.6	3.6
80°-90°	12.1	0.7
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°	547.4	32.8
0°-40°	907.8	54.3
0°-60°	1469.4	88.0
0°-90°	1670.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	657	
5°	666	63
15°	665	188
25°	643	296
35°	579	360
45°	442	337
55°	249	225
65°	127	129
75°	53	60
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	657.3
2.5°	658.3
5°	665.8
7.5°	665.1
10°	666.1
12.5°	664.7
15°	665.4
17.5°	664.1
20°	661.0
22.5°	650.1
25°	643.3
27.5°	629.7
30°	613.8
32.5°	597.8
35°	579.1
37.5°	556.7
40°	522.8
42.5°	485.7
45°	441.9
47.5°	393.3
50°	335.6
52.5°	286.7
55°	249.0
57.5°	213.0
60°	182.4
62.5°	155.9
65°	127.4
67.5°	104.6
70°	88.7
72.5°	75.4
75°	52.6
77.5°	41.8
80°	24.5
82.5°	15.6
85°	12.9
87.5°	3.7
90°	0.0

(END OF REPORT)