

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: P210302

Luminaire Tested: **PR840D010 - PR8M34MDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR840D010 - PR8M34MDMB - 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: 4498.2 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

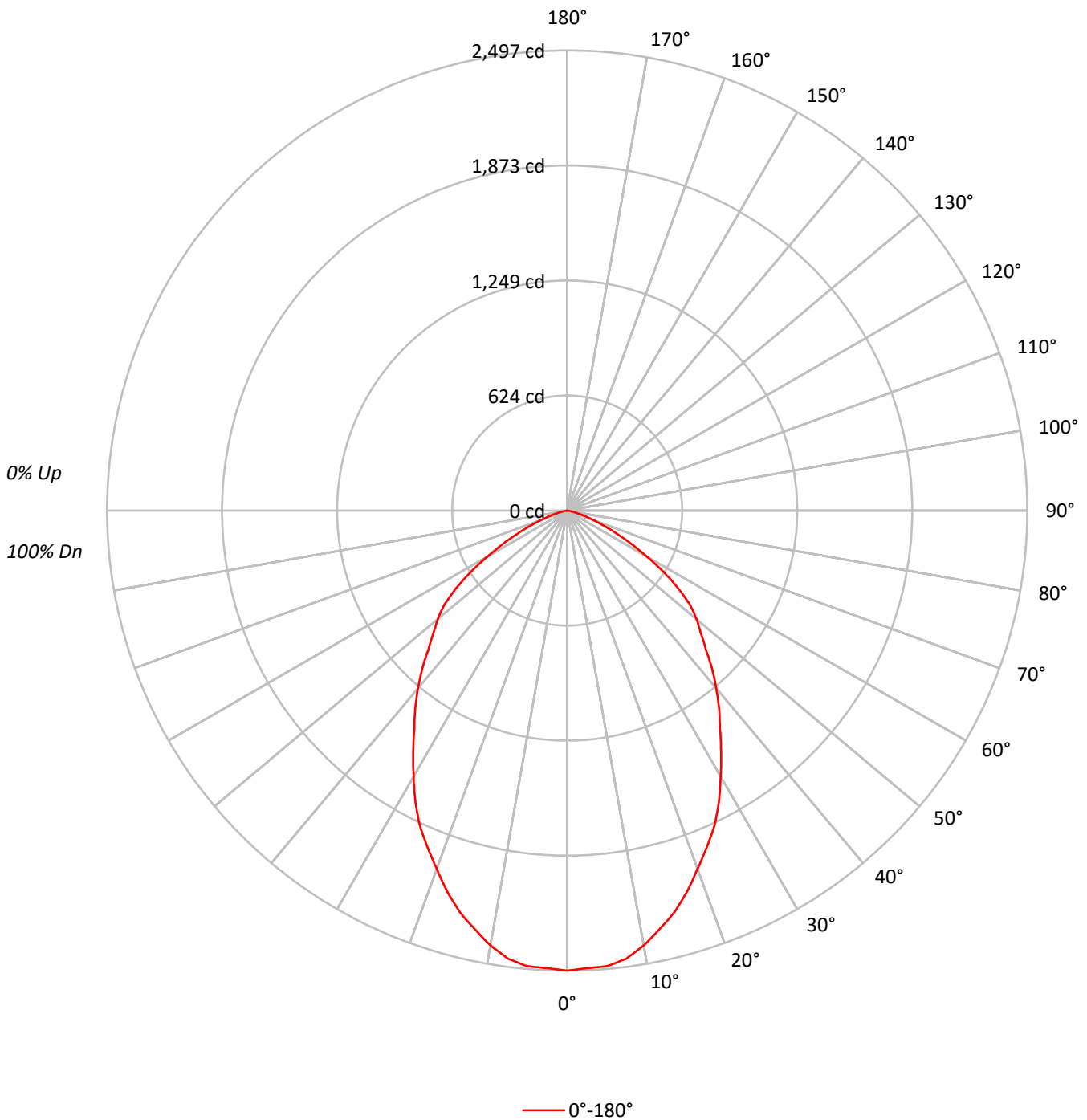
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	62		70	65	61	59
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	40		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	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76986
5°	76813
10°	75014
15°	71967
20°	67882
25°	64302
30°	59349
35°	54422
40°	50676
45°	46404
50°	43977
55°	39622
60°	30947
65°	21802
70°	13740
75°	7697
80°	2149
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	5.2
10°-20°	631.6	14.0
20°-30°	864.8	19.2
30°-40°	908.6	20.2
40°-50°	828.7	18.4
50°-60°	648.6	14.4
60°-70°	304.6	6.8
70°-80°	75.1	1.7
80°-90°	1.9	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°	1730.6	38.5
0°-40°	2639.2	58.7
0°-60°	4116.5	91.5
0°-90°	4498.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4498.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2497	
5°	2482	234
15°	2254	632
25°	1890	865
35°	1446	909
45°	1064	829
55°	737	649
65°	299	305
75°	65	75
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2496.6
2.5°	2485.5
5°	2481.5
7.5°	2453.2
10°	2395.7
12.5°	2325.0
15°	2254.3
17.5°	2166.5
20°	2068.6
22.5°	1978.7
25°	1889.9
27.5°	1783.9
30°	1666.8
32.5°	1554.7
35°	1445.7
37.5°	1353.8
40°	1258.9
42.5°	1164.0
45°	1064.1
47.5°	983.3
50°	916.7
52.5°	841.0
55°	737.0
57.5°	620.9
60°	501.8
62.5°	394.7
65°	298.8
67.5°	216.0
70°	152.4
72.5°	104.0
75°	64.6
77.5°	35.3
80°	12.1
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)