

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: P210176

Luminaire Tested: **PR830D010 - PR8M34WDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210176
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: PR830D010 - PR8M34WDMW - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.9 lumens
Efficiency: N/A
Efficacy: 117.8 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

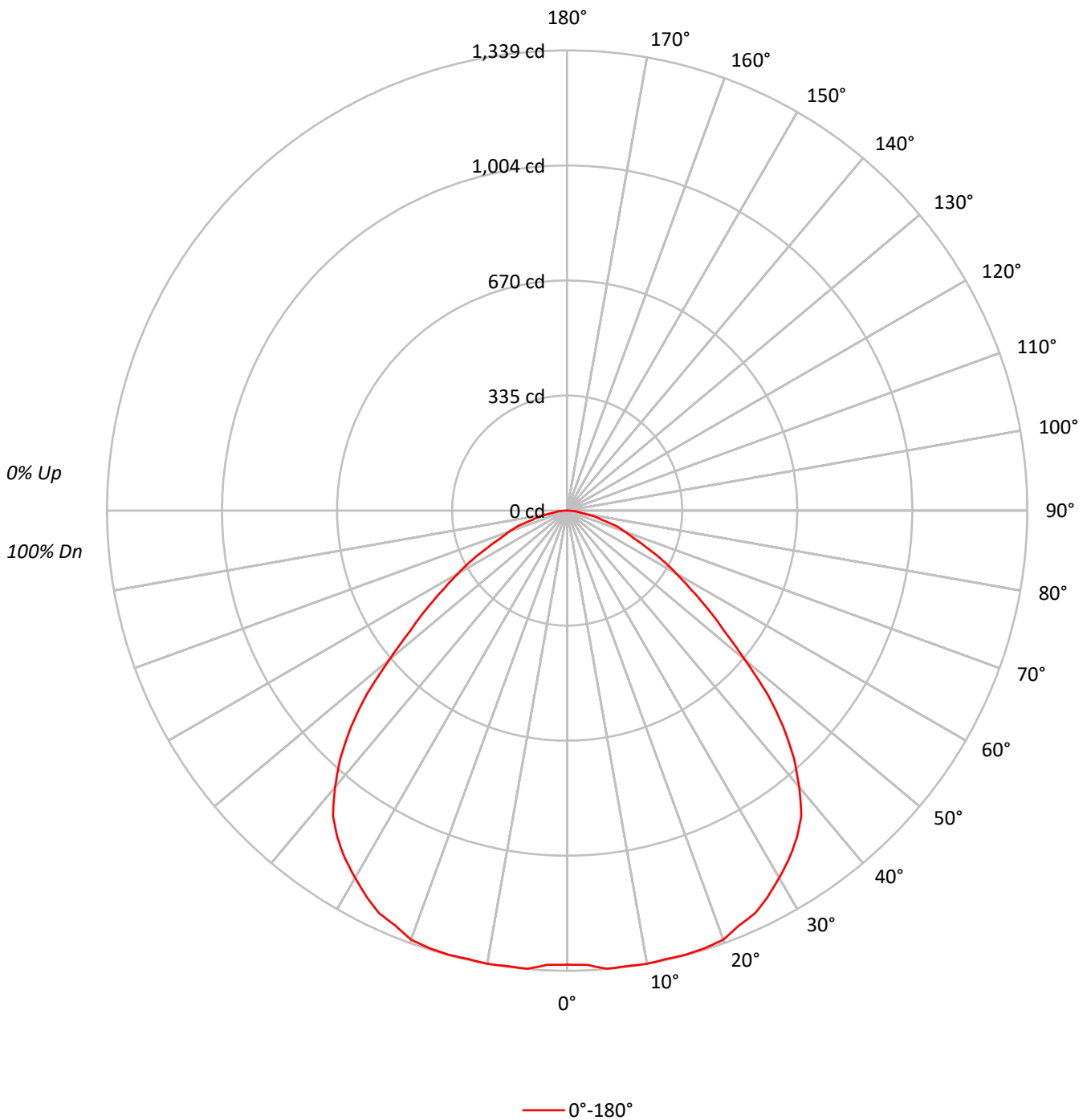
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	40741
5°	41426
10°	41924
15°	42702
20°	43602
25°	44000
30°	43932
35°	43822
40°	42299
45°	38738
50°	32362
55°	26908
60°	22615
65°	18679
70°	16066
75°	12605
80°	8737
85°	9164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.8
10°-20°	378.5	11.3
20°-30°	594.4	17.7
30°-40°	724.6	21.6
40°-50°	677.2	20.2
50°-60°	451.7	13.5
60°-70°	259.9	7.7
70°-80°	119.9	3.6
80°-90°	24.3	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°	1100.4	32.8
0°-40°	1824.9	54.3
0°-60°	2953.8	88.0
0°-90°	3357.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1321	
5°	1338	127
15°	1338	378
25°	1293	594
35°	1164	725
45°	888	677
55°	500	452
65°	256	260
75°	106	120
85°	26	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1321.2
2.5°	1323.2
5°	1338.3
7.5°	1336.9
10°	1338.9
12.5°	1336.2
15°	1337.6
17.5°	1334.8
20°	1328.7
22.5°	1306.8
25°	1293.2
27.5°	1265.9
30°	1233.8
32.5°	1201.7
35°	1164.1
37.5°	1119.1
40°	1050.8
42.5°	976.4
45°	888.3
47.5°	790.7
50°	674.6
52.5°	576.3
55°	500.5
57.5°	428.1
60°	366.7
62.5°	313.4
65°	256.0
67.5°	210.3
70°	178.2
72.5°	151.6
75°	105.8
77.5°	84.0
80°	49.2
82.5°	31.4
85°	25.9
87.5°	7.5
90°	0.0

(END OF REPORT)