

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: P210456

Luminaire Tested: **PR8R40D010 - PR8M34WDMW - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210456  
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: PR8R40D010 - 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: 4588.4 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

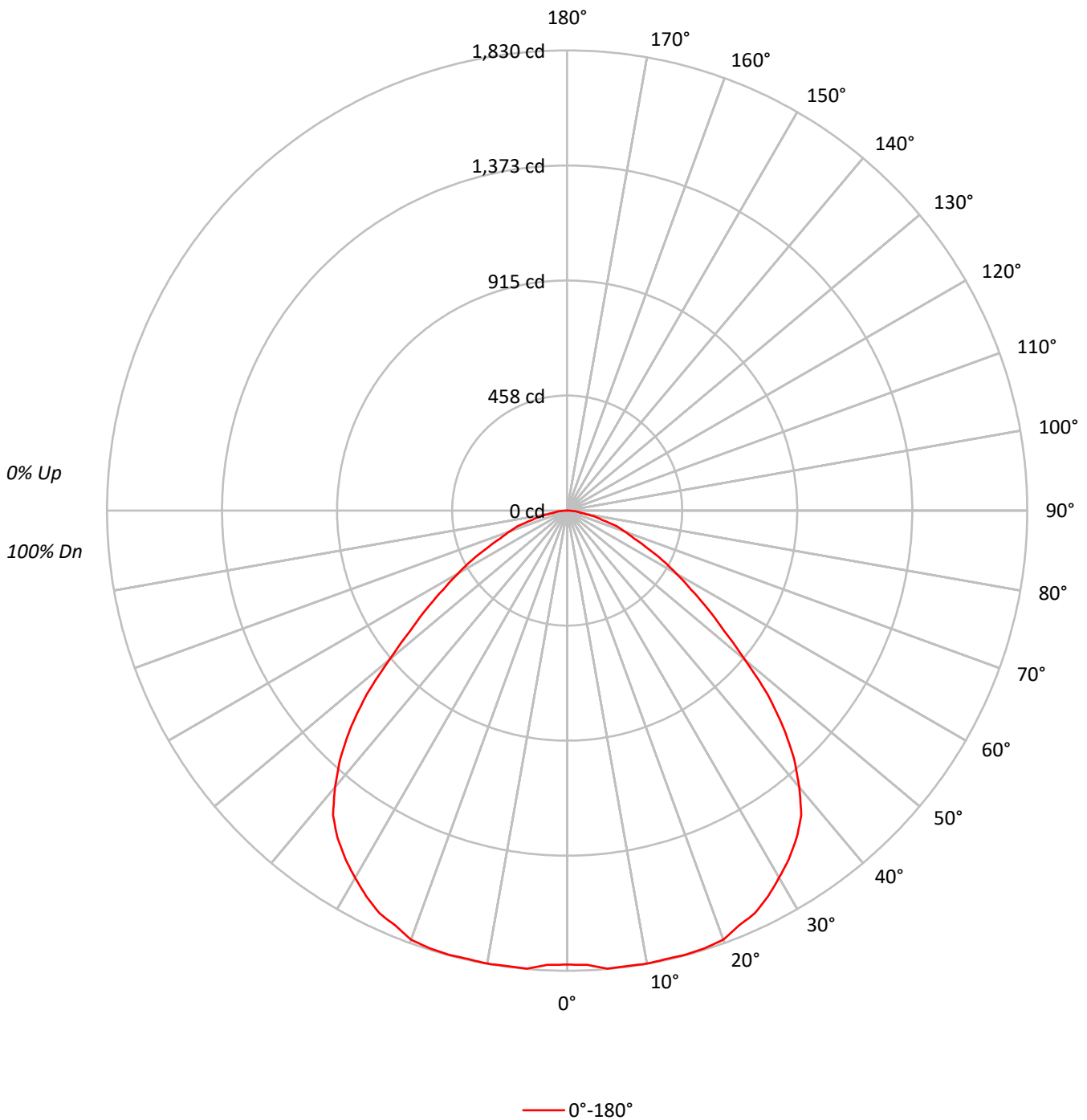
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	55672
5°	56606
10°	57288
15°	58351
20°	59579
25°	60124
30°	60029
35°	59884
40°	57801
45°	52933
50°	44221
55°	36767
60°	30898
65°	25530
70°	21954
75°	17228
80°	11933
85°	12560



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	3.8
10°-20°	517.2	11.3
20°-30°	812.2	17.7
30°-40°	990.1	21.6
40°-50°	925.3	20.2
50°-60°	617.2	13.5
60°-70°	355.1	7.7
70°-80°	163.8	3.6
80°-90°	33.3	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°	1503.6	32.8
0°-40°	2493.7	54.3
0°-60°	4036.3	88.0
0°-90°	4588.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4588.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1805	
5°	1829	174
15°	1828	517
25°	1767	812
35°	1591	990
45°	1214	925
55°	684	617
65°	350	355
75°	145	164
85°	36	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1805.4
2.5°	1808.2
5°	1828.7
7.5°	1826.8
10°	1829.6
12.5°	1825.9
15°	1827.8
17.5°	1824.0
20°	1815.6
22.5°	1785.8
25°	1767.1
27.5°	1729.8
30°	1685.9
32.5°	1642.1
35°	1590.8
37.5°	1529.2
40°	1435.9
42.5°	1334.2
45°	1213.8
47.5°	1080.4
50°	921.8
52.5°	787.5
55°	683.9
57.5°	585.0
60°	501.0
62.5°	428.3
65°	349.9
67.5°	287.4
70°	243.5
72.5°	207.1
75°	144.6
77.5°	114.8
80°	67.2
82.5°	42.9
85°	35.5
87.5°	10.3
90°	0.0

(END OF REPORT)