

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: P210649

Luminaire Tested: **PR8S30D010 - PR8M34WDMB - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210649  
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: PR8S30D010 - PR8M34WDMB - 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: 2453.5 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

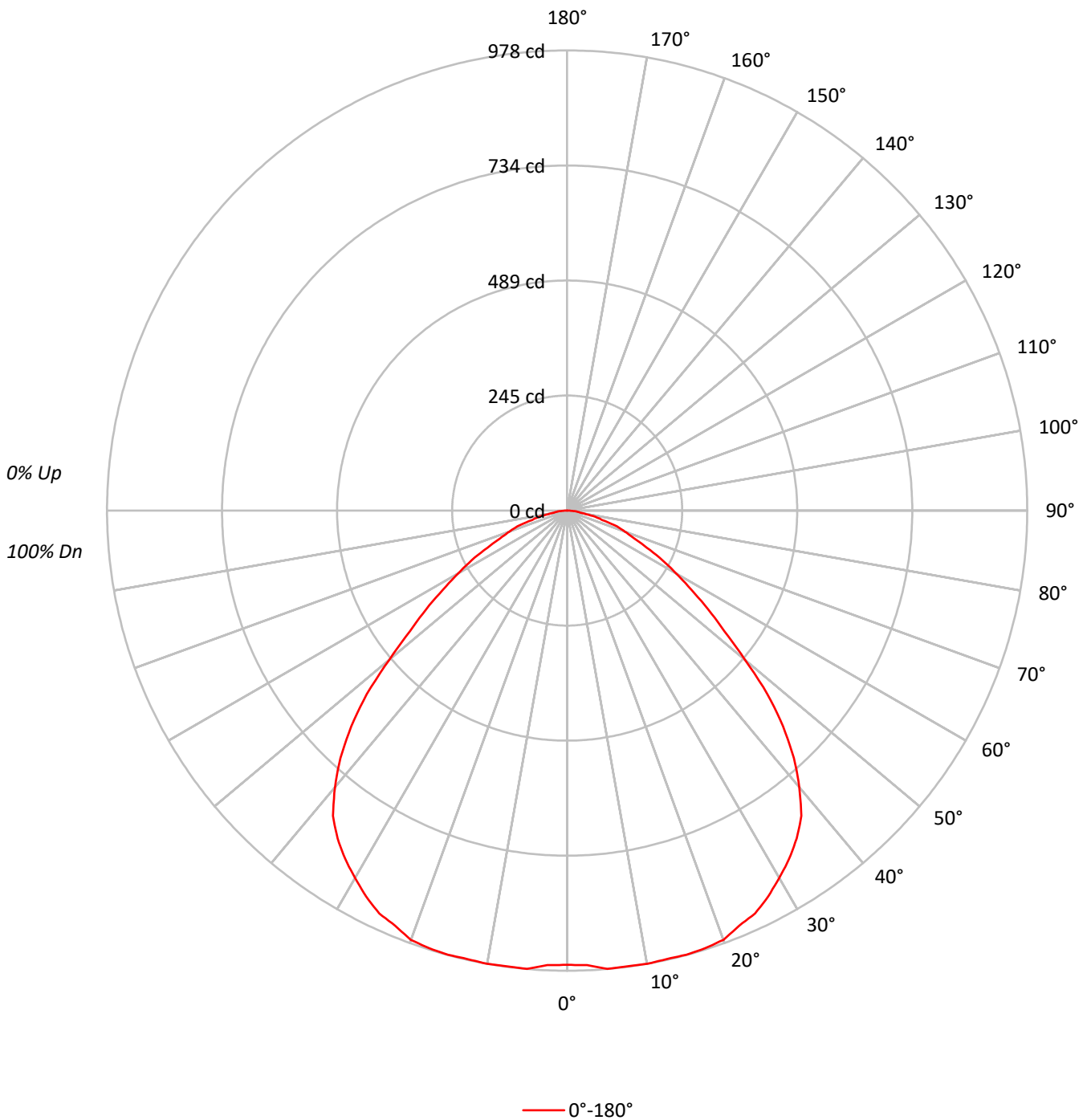
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	29766
5°	30267
10°	30633
15°	31199
20°	31857
25°	32149
30°	32099
35°	32020
40°	30907
45°	28302
50°	23646
55°	19661
60°	16522
65°	13652
70°	11739
75°	9210
80°	6375
85°	6722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	3.8
10°-20°	276.5	11.3
20°-30°	434.3	17.7
30°-40°	529.4	21.6
40°-50°	494.8	20.2
50°-60°	330.0	13.5
60°-70°	189.9	7.7
70°-80°	87.6	3.6
80°-90°	17.8	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°	804.0	32.8
0°-40°	1333.4	54.3
0°-60°	2158.2	88.0
0°-90°	2453.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	965	
5°	978	93
15°	977	277
25°	945	434
35°	851	529
45°	649	495
55°	366	330
65°	187	190
75°	77	88
85°	19	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	965.3
2.5°	966.8
5°	977.8
7.5°	976.8
10°	978.3
12.5°	976.3
15°	977.3
17.5°	975.3
20°	970.8
22.5°	954.9
25°	944.9
27.5°	924.9
30°	901.5
32.5°	878.0
35°	850.6
37.5°	817.7
40°	767.8
42.5°	713.4
45°	649.0
47.5°	577.7
50°	492.9
52.5°	421.1
55°	365.7
57.5°	312.8
60°	267.9
62.5°	229.0
65°	187.1
67.5°	153.7
70°	130.2
72.5°	110.8
75°	77.3
77.5°	61.4
80°	35.9
82.5°	22.9
85°	19.0
87.5°	5.5
90°	0.0

(END OF REPORT)