

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: P241779

Luminaire Tested: **PRS415D010-S4M12-44SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS415D010-S4M12-44SNDC-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1211.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

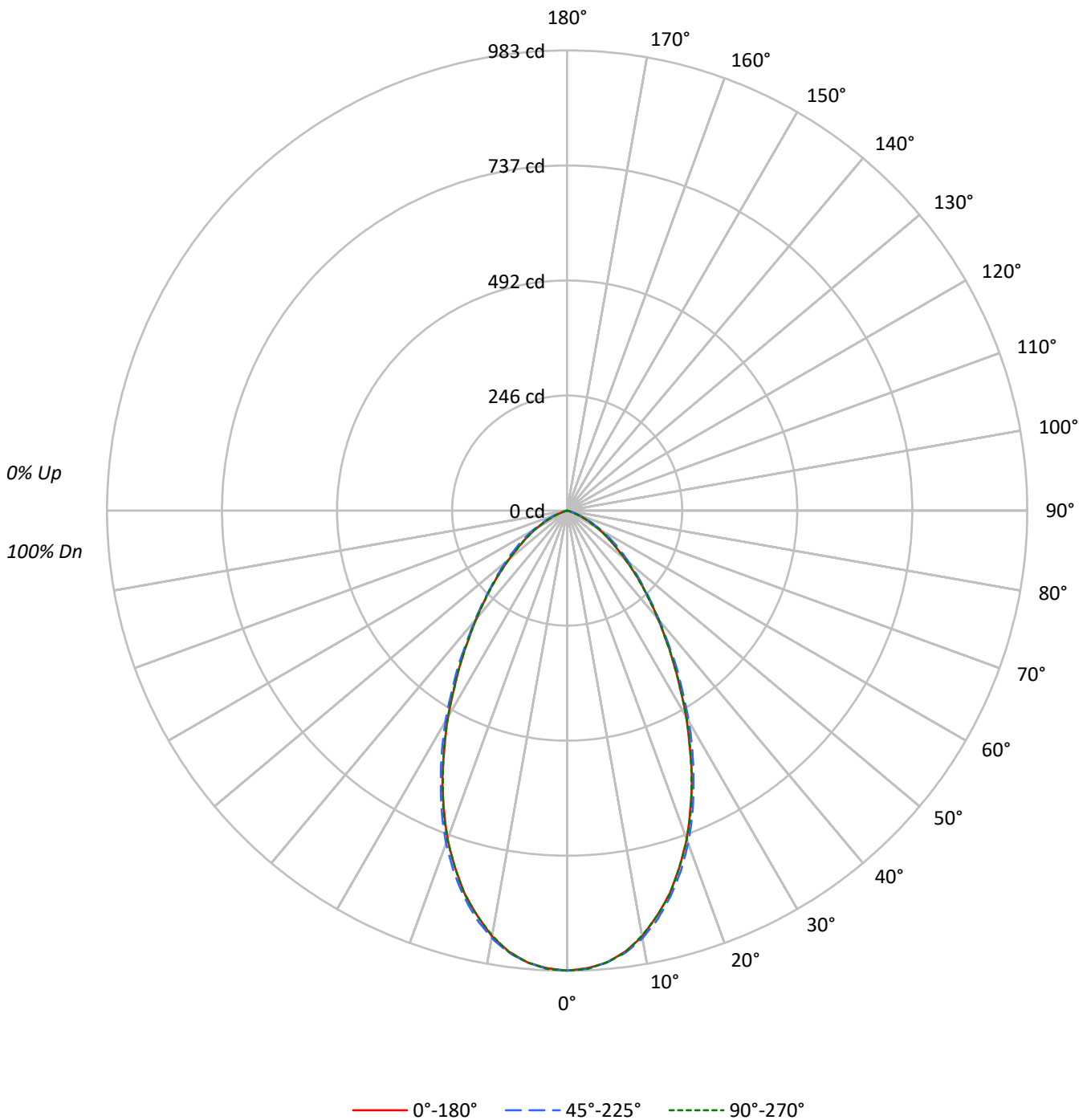
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50					50			
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75219	75219	75219
5°	74469	74469	74469
10°	71763	72074	71654
15°	67072	67603	67175
20°	60807	61572	60913
25°	53241	53925	53013
30°	44979	45934	44979
35°	36956	37844	36956
40°	30076	30616	30216
45°	24399	24843	24399
50°	19291	20410	19291
55°	15133	16748	15133
60°	11573	12813	11573
65°	7824	9038	7824
70°	3916	5125	3916
75°	0	1183	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	7.5
10°-20°	237.2	19.6
20°-30°	290.6	24.0
30°-40°	251.7	20.8
40°-50°	178.5	14.7
50°-60°	107.9	8.9
60°-70°	48.1	4.0
70°-80°	5.9	0.5
80°-90°	0.0	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°	618.9	51.1
0°-40°	870.6	71.9
0°-60°	1157.0	95.5
0°-90°	1211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	969	969	969	969	969	91
15°	846	850	853	852	848	236
25°	630	638	638	637	628	288
35°	396	404	405	402	396	248
45°	225	231	230	232	225	175
55°	113	119	126	120	113	103
65°	43	49	50	49	43	44
75°	0	1	4	1	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	978.6	978.6	980.0	980.0	980.0
5°	969.2	969.2	969.2	969.2	969.2
7.5°	950.3	950.3	953.0	951.6	951.6
10°	923.3	923.3	927.3	924.6	921.9
12.5°	886.8	890.9	893.6	890.9	886.8
15°	846.4	850.4	853.1	851.8	847.7
17.5°	797.8	804.5	807.2	804.5	797.8
20°	746.5	751.9	755.9	751.9	747.8
22.5°	688.4	695.2	699.2	695.2	691.1
25°	630.4	638.5	638.5	637.1	627.7
27.5°	566.9	576.4	579.1	576.4	568.3
30°	508.9	515.6	519.7	515.6	508.9
32.5°	448.1	457.6	458.9	457.6	449.5
35°	395.5	403.6	405.0	402.3	395.5
37.5°	345.6	353.7	351.0	353.7	345.6
40°	301.0	307.8	306.4	307.8	302.4
42.5°	261.9	267.3	265.9	267.3	260.5
45°	225.4	230.8	229.5	232.2	225.4
47.5°	193.0	198.4	199.8	198.4	193.0
50°	162.0	170.1	171.4	170.1	162.0
52.5°	135.0	141.7	147.1	143.1	135.0
55°	113.4	118.8	125.5	120.1	113.4
57.5°	93.1	98.5	103.9	99.9	93.1
60°	75.6	81.0	83.7	81.0	75.6
62.5°	58.0	64.8	66.1	64.8	58.0
65°	43.2	48.6	49.9	48.6	43.2
67.5°	29.7	35.1	35.1	35.1	29.7
70°	17.5	21.6	22.9	22.9	17.5
72.5°	6.7	10.8	12.1	10.8	8.1
75°	0.0	1.3	4.0	1.3	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)