

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: P238094

Luminaire Tested: **PRS615D010-S6M12-64SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" 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: 1506.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

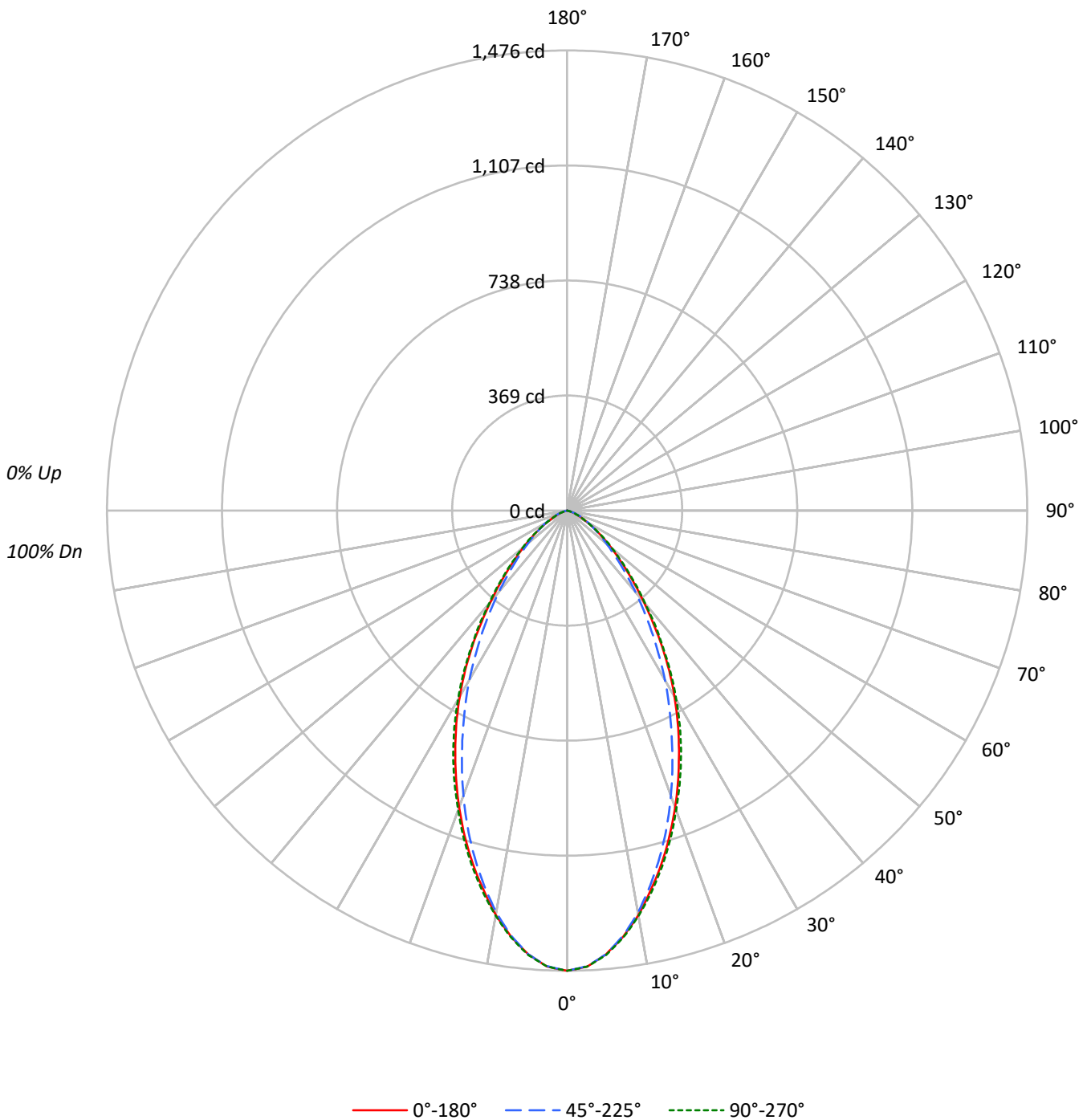
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63554	63554	63554
5°	61740	61740	61852
10°	57592	57242	57706
15°	52223	51221	52580
20°	46405	44586	46827
25°	40314	37673	41070
30°	34225	31197	34816
35°	27836	24772	28183
40°	21504	19121	21875
45°	16203	14431	16769
50°	12238	10999	12680
55°	8843	8550	9143
60°	6269	6837	6381
65°	4320	4992	4320
70°	2832	3336	2832
75°	1314	1547	1314
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	8.8
10°-20°	323.9	21.5
20°-30°	376.8	25.0
30°-40°	311.7	20.7
40°-50°	196.6	13.1
50°-60°	107.0	7.1
60°-70°	47.0	3.1
70°-80°	10.8	0.7
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°	833.4	55.3
0°-40°	1145.1	76.0
0°-60°	1448.8	96.2
0°-90°	1506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1428	1430	1428	1430	1431	133
15°	1172	1158	1149	1165	1180	327
25°	849	816	793	826	864	389
35°	530	490	471	498	536	330
45°	266	245	237	249	275	209
55°	118	116	114	119	122	109
65°	42	46	49	46	42	44
75°	8	9	9	11	8	9
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°	1476.1	1476.1	1476.1	1476.1	1476.1
2.5°	1464.2	1462.9	1462.9	1464.2	1464.2
5°	1428.5	1429.8	1428.5	1429.8	1431.1
7.5°	1378.2	1376.8	1375.5	1379.5	1380.8
10°	1317.3	1313.3	1309.3	1316.0	1319.9
12.5°	1244.5	1237.8	1231.2	1241.8	1252.4
15°	1171.6	1158.4	1149.1	1165.0	1179.6
17.5°	1093.5	1076.3	1063.1	1081.6	1102.8
20°	1012.8	990.3	973.1	995.6	1022.0
22.5°	930.7	902.9	881.7	910.8	943.9
25°	848.6	815.5	793.0	826.1	864.5
27.5°	769.2	730.8	708.3	740.1	783.7
30°	688.4	648.7	627.5	659.3	700.3
32.5°	609.0	569.3	545.4	577.2	619.6
35°	529.6	489.8	471.3	497.8	536.2
37.5°	450.1	417.0	402.5	425.0	463.4
40°	382.6	352.2	340.2	357.5	389.2
42.5°	320.4	292.6	283.3	300.5	331.0
45°	266.1	244.9	237.0	248.9	275.4
47.5°	219.8	203.9	197.3	209.2	227.7
50°	182.7	170.8	164.2	173.4	189.3
52.5°	149.6	141.7	136.4	144.3	154.9
55°	117.8	116.5	113.9	119.2	121.8
57.5°	94.0	94.0	95.3	95.3	95.3
60°	72.8	75.5	79.4	76.8	74.1
62.5°	55.6	59.6	63.5	59.6	56.9
65°	42.4	46.3	49.0	46.3	42.4
67.5°	31.8	34.4	37.1	34.4	31.8
70°	22.5	25.2	26.5	25.2	22.5
72.5°	14.6	17.2	17.2	17.2	14.6
75°	7.9	9.3	9.3	10.6	7.9
77.5°	1.3	2.6	4.0	4.0	1.3
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)