

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: P238084

Luminaire Tested: **PRS615D010-S6M12-64SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238084
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1450.5 lumens
Efficiency: N/A
Efficacy: 115.1 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

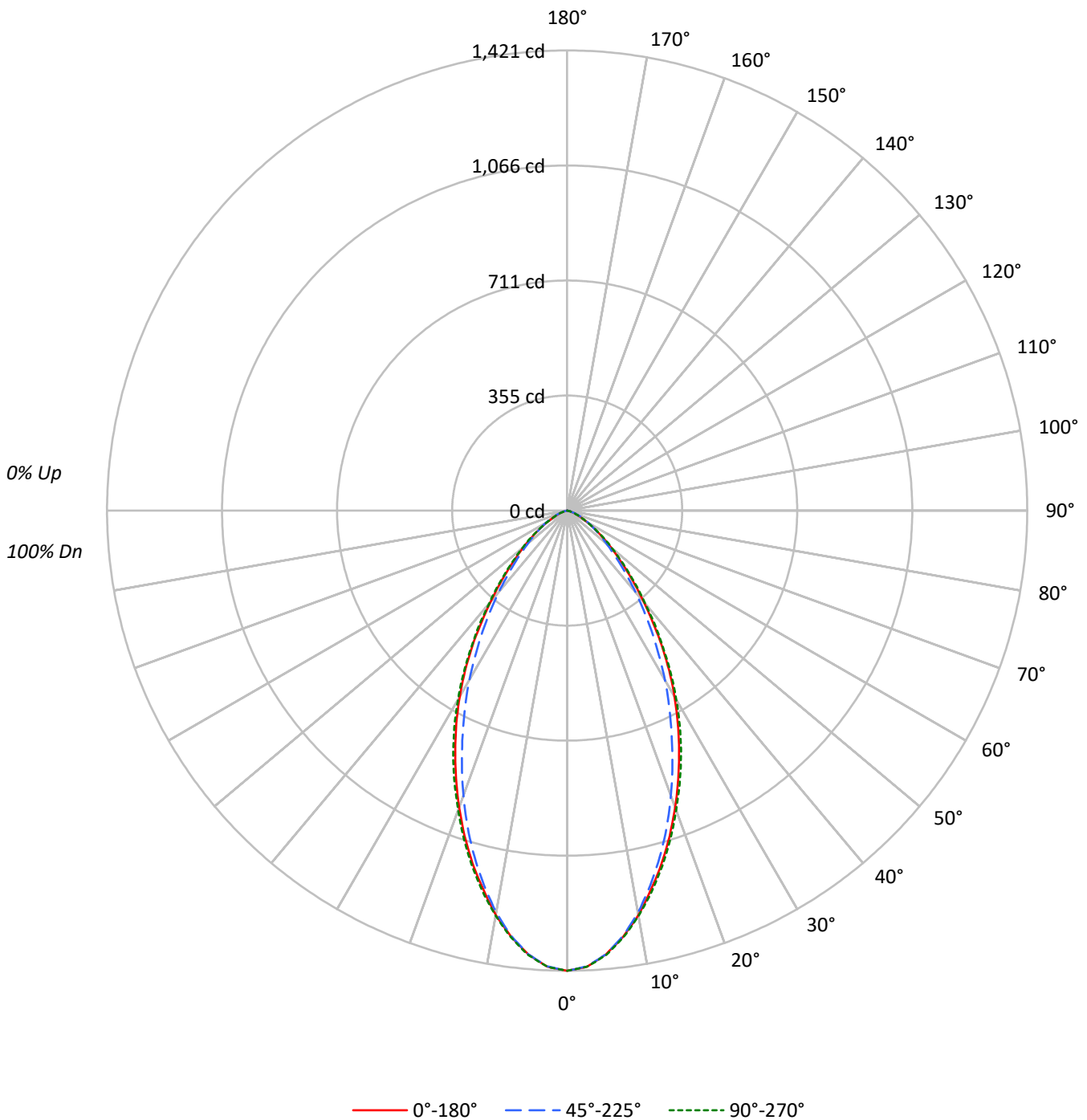
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61191	61191	61191
5°	59441	59441	59553
10°	55450	55113	55559
15°	50284	49317	50623
20°	44678	42928	45086
25°	38818	36271	39540
30°	32952	30039	33524
35°	26801	23852	27132
40°	20706	18413	21060
45°	15600	13895	16142
50°	11782	10590	12211
55°	8512	8227	8805
60°	6036	6588	6148
65°	4157	4809	4157
70°	2732	3210	2732
75°	1264	1481	1264
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	8.8
10°-20°	311.9	21.5
20°-30°	362.8	25.0
30°-40°	300.1	20.7
40°-50°	189.3	13.1
50°-60°	103.0	7.1
60°-70°	45.3	3.1
70°-80°	10.4	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°	802.4	55.3
0°-40°	1102.5	76.0
0°-60°	1394.9	96.2
0°-90°	1450.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1375	1377	1375	1377	1378	128
15°	1128	1115	1106	1122	1136	315
25°	817	785	764	795	832	374
35°	510	472	454	479	516	318
45°	256	236	228	240	265	201
55°	113	112	110	115	117	105
65°	41	45	47	45	41	42
75°	8	9	9	10	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°	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1409.8	1408.5	1408.5	1409.8	1409.8
5°	1375.3	1376.6	1375.3	1376.6	1377.9
7.5°	1326.9	1325.6	1324.4	1328.2	1329.5
10°	1268.3	1264.5	1260.6	1267.0	1270.8
12.5°	1198.2	1191.8	1185.4	1195.6	1205.8
15°	1128.1	1115.3	1106.4	1121.7	1135.7
17.5°	1052.9	1036.3	1023.5	1041.4	1061.8
20°	975.1	953.4	936.9	958.5	984.0
22.5°	896.1	869.3	848.9	877.0	908.8
25°	817.1	785.2	763.5	795.4	832.3
27.5°	740.6	703.6	681.9	712.5	754.6
30°	662.8	624.6	604.2	634.8	674.3
32.5°	586.3	548.1	525.2	555.7	596.5
35°	509.9	471.6	453.8	479.3	516.2
37.5°	433.4	401.5	387.5	409.2	446.1
40°	368.4	339.1	327.6	344.2	374.7
42.5°	308.5	281.7	272.8	289.3	318.7
45°	256.2	235.8	228.2	239.6	265.1
47.5°	211.6	196.3	189.9	201.4	219.2
50°	175.9	164.4	158.1	167.0	182.3
52.5°	144.0	136.4	131.3	138.9	149.1
55°	113.4	112.2	109.6	114.7	117.3
57.5°	90.5	90.5	91.8	91.8	91.8
60°	70.1	72.7	76.5	73.9	71.4
62.5°	53.5	57.4	61.2	57.4	54.8
65°	40.8	44.6	47.2	44.6	40.8
67.5°	30.6	33.1	35.7	33.1	30.6
70°	21.7	24.2	25.5	24.2	21.7
72.5°	14.0	16.6	16.6	16.6	14.0
75°	7.6	8.9	8.9	10.2	7.6
77.5°	1.3	2.5	3.8	3.8	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)