

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: P238129

Luminaire Tested: **PRS615D010-S6M12-61SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1228.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

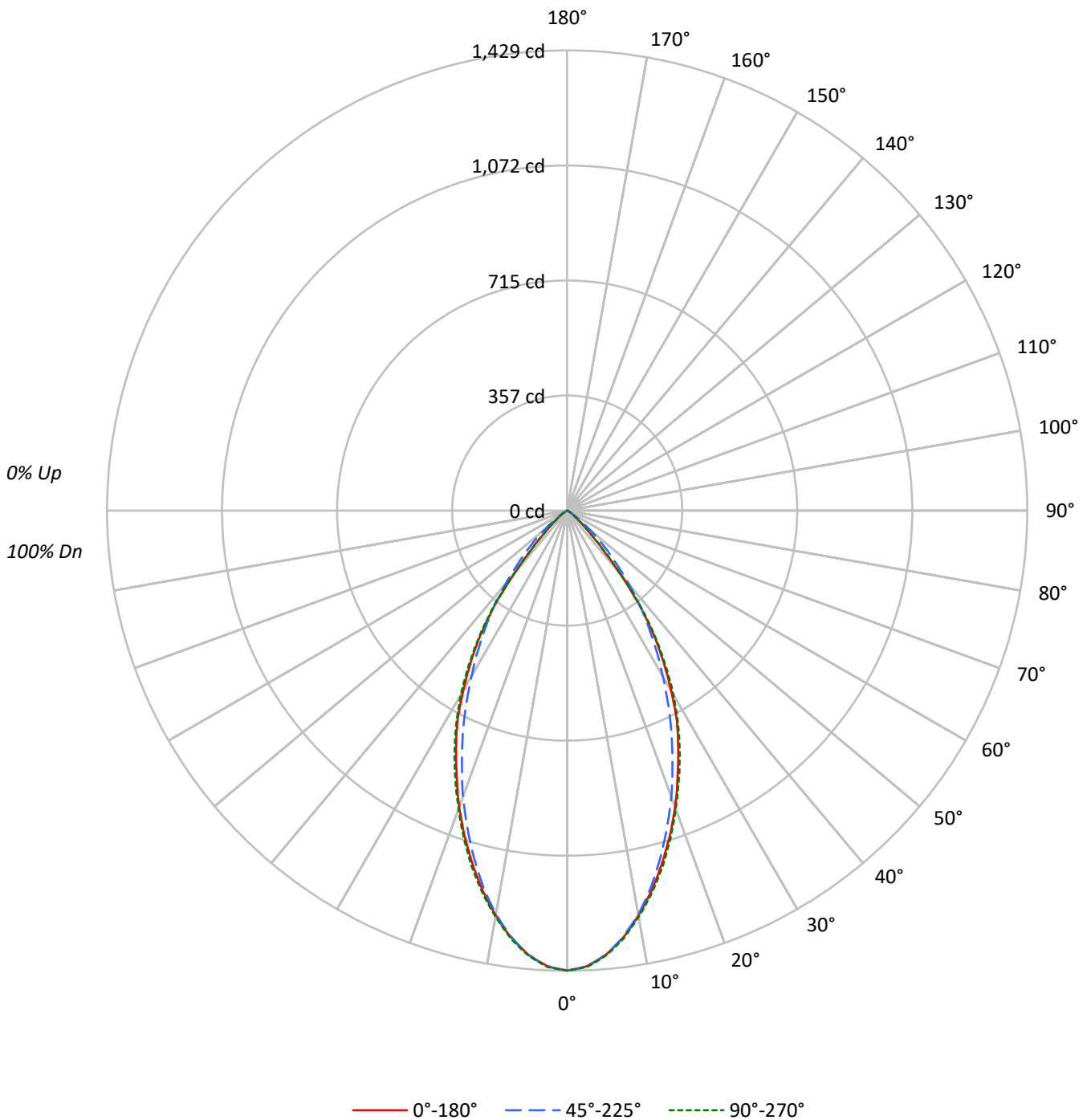
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61518	61518	61518
5°	59825	59881	59938
10°	55835	55669	56005
15°	50623	49767	51020
20°	44912	43335	45200
25°	38751	36452	39298
30°	32062	29532	32823
35°	24451	23111	24925
40°	14186	16620	14613
45°	6284	10863	6442
50°	2987	6062	2987
55°	1629	2485	1629
60°	551	990	551
65°	0	255	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	10.5
10°-20°	314.3	25.6
20°-30°	362.4	29.5
30°-40°	279.4	22.7
40°-50°	114.7	9.3
50°-60°	27.0	2.2
60°-70°	2.2	0.2
70°-80°	0.0	0.0
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°	805.4	65.5
0°-40°	1084.8	88.3
0°-60°	1226.5	99.8
0°-90°	1228.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1384	1384	1386	1387	1387	129
15°	1136	1127	1116	1128	1145	317
25°	816	788	767	795	827	373
35°	465	442	440	452	474	283
45°	103	134	178	138	106	91
55°	22	28	33	28	22	20
65°	0	0	2	0	0	1
75°	0	0	0	0	0	0
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°	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1416.1	1417.4	1417.4	1418.6	1418.6
5°	1384.2	1384.2	1385.5	1386.8	1386.8
7.5°	1337.1	1335.8	1334.5	1337.1	1340.9
10°	1277.1	1273.3	1273.3	1275.9	1281.0
12.5°	1209.6	1203.2	1199.4	1204.5	1216.0
15°	1135.7	1126.7	1116.5	1128.0	1144.6
17.5°	1059.2	1046.4	1031.1	1047.7	1066.8
20°	980.2	959.8	945.8	963.6	986.5
22.5°	896.0	874.4	854.0	880.7	906.2
25°	815.7	787.7	767.3	795.3	827.2
27.5°	738.0	701.0	679.4	710.0	745.6
30°	644.9	618.2	594.0	625.8	660.2
32.5°	555.7	527.7	516.2	536.6	567.2
35°	465.2	442.3	439.7	452.5	474.2
37.5°	364.5	363.3	370.9	368.4	372.2
40°	252.4	283.0	295.7	285.5	260.0
42.5°	163.1	198.8	230.7	203.9	172.1
45°	103.2	133.8	178.4	137.7	105.8
47.5°	65.0	86.7	133.8	89.2	66.3
50°	44.6	57.4	90.5	57.4	44.6
52.5°	30.6	39.5	56.1	39.5	31.9
55°	21.7	28.0	33.1	28.0	21.7
57.5°	12.7	17.8	19.1	17.8	14.0
60°	6.4	10.2	11.5	10.2	6.4
62.5°	0.0	3.8	6.4	3.8	0.0
65°	0.0	0.0	2.5	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	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)