

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: P238285

Luminaire Tested: **PRS620D010-S6M12-61SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2316.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

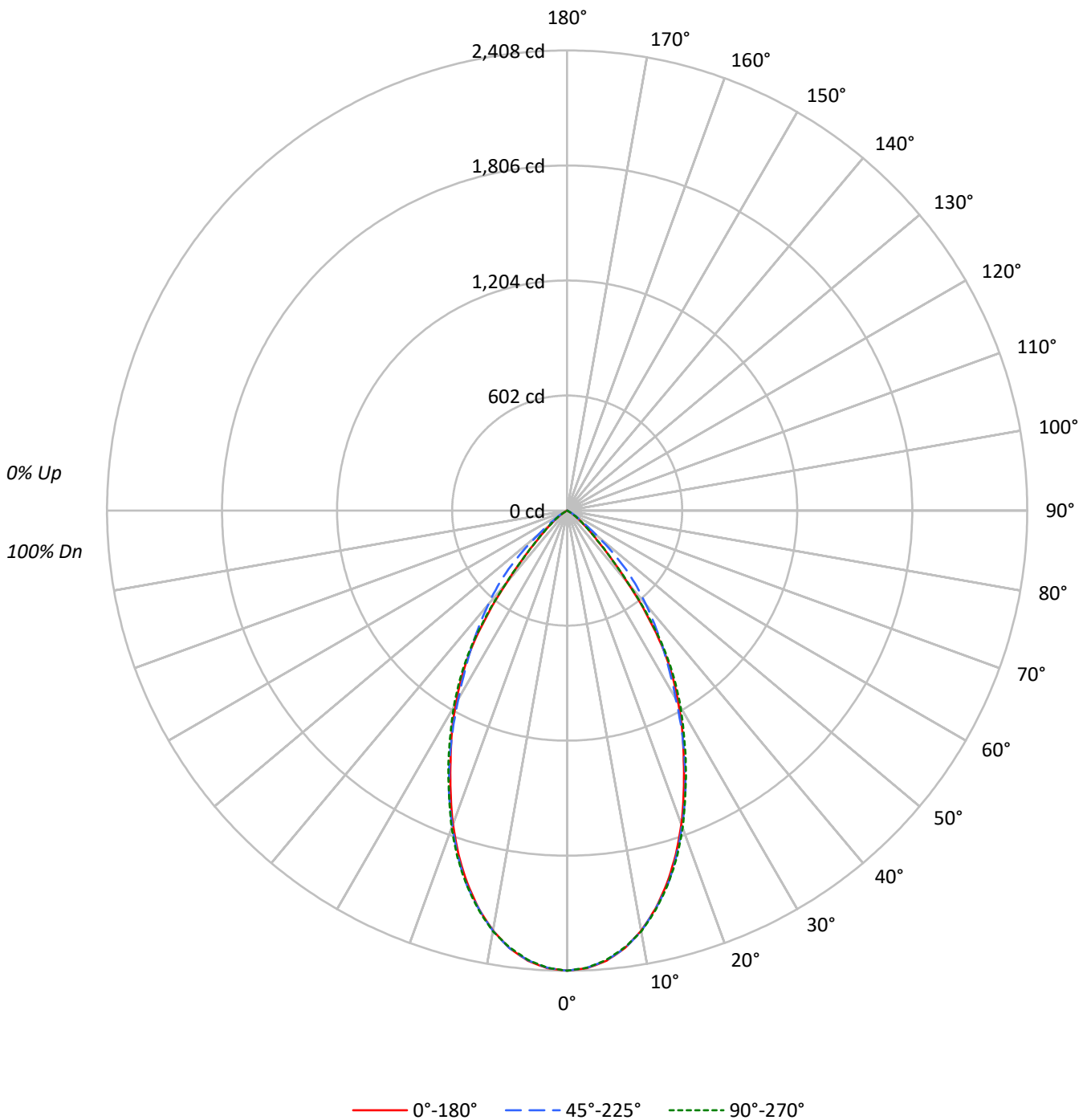
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	103657	103657	103657
5°	102177	102082	101987
10°	97565	97661	97758
15°	89991	90473	90473
20°	80068	80467	80967
25°	68581	69198	69821
30°	57850	56552	59038
35°	45529	45755	46554
40°	27698	35994	28187
45°	14011	26438	14279
50°	7710	13376	7710
55°	4234	5540	4399
60°	1119	2428	1119
65°	0	886	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°	221.4	9.6
10°-20°	564.3	24.4
20°-30°	666.4	28.8
30°-40°	544.0	23.5
40°-50°	249.7	10.8
50°-60°	64.9	2.8
60°-70°	5.5	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°	1452.1	62.7
0°-40°	1996.1	86.2
0°-60°	2310.7	99.8
0°-90°	2316.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2408	2408	2408	2408	2408	
5°	2364	2364	2362	2362	2360	221
15°	2019	2023	2030	2032	2030	562
25°	1444	1441	1457	1465	1470	663
35°	866	890	870	903	886	525
45°	230	284	434	287	234	197
55°	56	70	74	70	59	53
65°	0	0	9	0	0	2
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°	2407.5	2407.5	2407.5	2407.5	2407.5
2.5°	2396.6	2396.6	2394.4	2394.4	2394.4
5°	2364.1	2364.1	2361.9	2361.9	2359.7
7.5°	2309.8	2309.8	2309.8	2307.6	2305.4
10°	2231.6	2231.6	2233.8	2233.8	2236.0
12.5°	2133.9	2136.1	2136.1	2140.5	2140.5
15°	2018.9	2023.2	2029.7	2031.9	2029.7
17.5°	1888.6	1893.0	1899.5	1908.2	1906.0
20°	1747.5	1749.7	1756.2	1769.2	1767.1
22.5°	1593.4	1597.7	1615.1	1619.5	1615.1
25°	1443.6	1441.4	1456.6	1465.3	1469.7
27.5°	1306.9	1296.0	1298.2	1311.2	1324.2
30°	1163.6	1159.2	1137.5	1172.3	1187.5
32.5°	1022.5	1024.6	996.4	1033.3	1042.0
35°	866.2	890.0	870.5	903.1	885.7
37.5°	679.5	744.6	751.1	755.5	696.8
40°	492.8	577.4	640.4	581.8	501.5
42.5°	343.0	412.5	540.5	421.1	340.8
45°	230.1	284.4	434.2	286.6	234.5
47.5°	160.6	191.0	314.8	193.2	160.6
50°	115.1	132.4	199.7	134.6	115.1
52.5°	84.7	95.5	121.6	95.5	84.7
55°	56.4	69.5	73.8	69.5	58.6
57.5°	34.7	45.6	47.8	45.6	32.6
60°	13.0	23.9	28.2	23.9	13.0
62.5°	2.2	6.5	17.4	8.7	2.2
65°	0.0	0.0	8.7	0.0	0.0
67.5°	0.0	0.0	2.2	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)