

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: P238280

Luminaire Tested: **PRS620D010-S6M12-61SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238280
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2217.3 lumens
Efficiency: N/A
Efficacy: 110.9 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

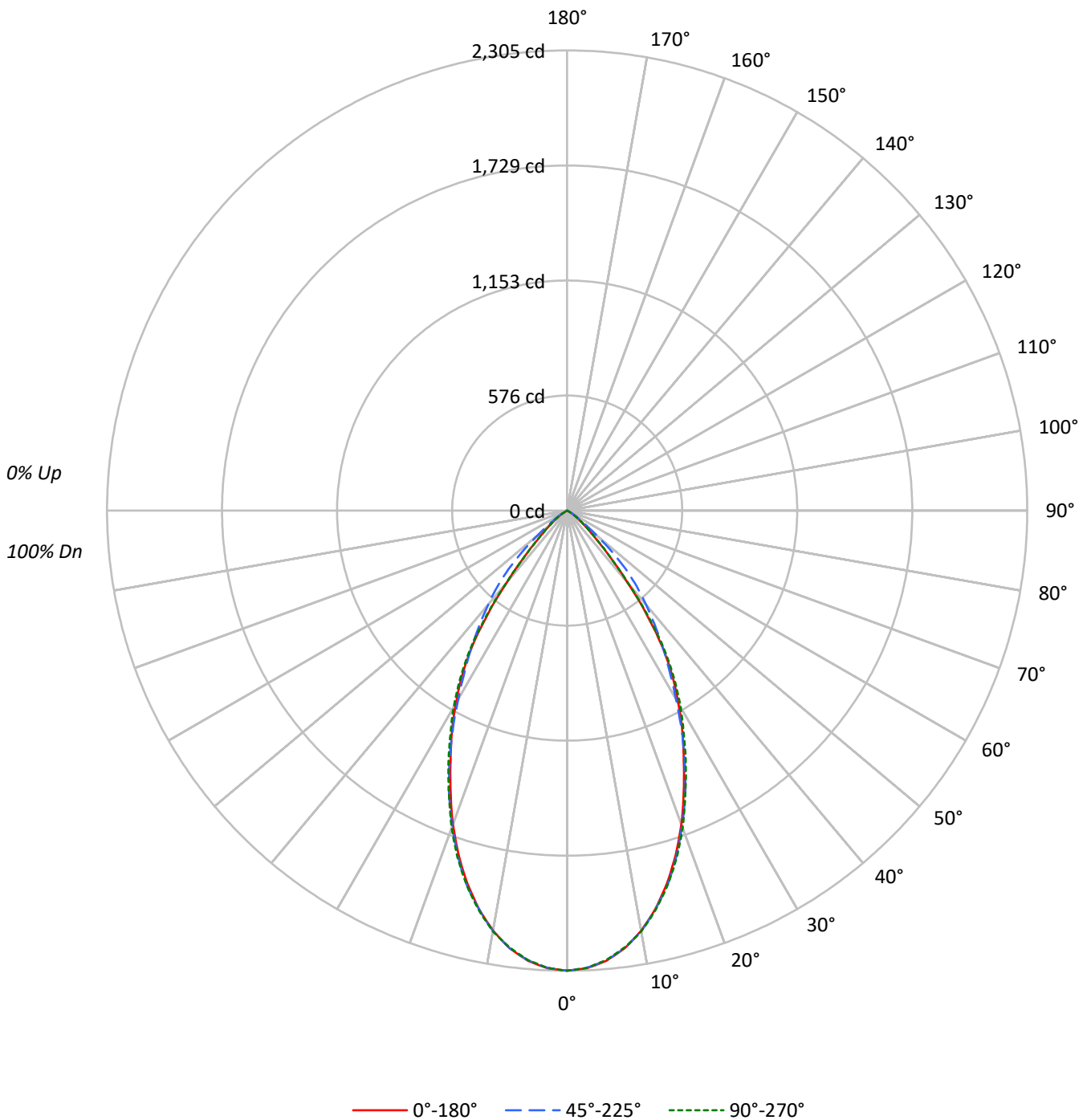
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	99230	99230	99230
5°	97816	97725	97634
10°	93403	93495	93587
15°	86149	86613	86613
20°	76655	77035	77512
25°	65654	66248	66837
30°	55379	54141	56518
35°	43584	43805	44567
40°	26518	34459	26984
45°	13414	25306	13664
50°	7375	12807	7375
55°	4054	5307	4211
60°	1076	2325	1076
65°	0	846	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°	212.0	9.6
10°-20°	540.2	24.4
20°-30°	637.9	28.8
30°-40°	520.8	23.5
40°-50°	239.0	10.8
50°-60°	62.1	2.8
60°-70°	5.2	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°	1390.1	62.7
0°-40°	1910.9	86.2
0°-60°	2212.1	99.8
0°-90°	2217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2263	2263	2261	2261	2259	212
15°	1933	1937	1943	1945	1943	538
25°	1382	1380	1394	1403	1407	635
35°	829	852	833	864	848	503
45°	220	272	416	274	224	189
55°	54	66	71	66	56	51
65°	0	0	8	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°	2304.7	2304.7	2304.7	2304.7	2304.7
2.5°	2294.3	2294.3	2292.3	2292.3	2292.3
5°	2263.2	2263.2	2261.1	2261.1	2259.0
7.5°	2211.2	2211.2	2211.2	2209.1	2207.1
10°	2136.4	2136.4	2138.5	2138.5	2140.6
12.5°	2042.9	2045.0	2045.0	2049.1	2049.1
15°	1932.7	1936.9	1943.1	1945.2	1943.1
17.5°	1808.0	1812.2	1818.4	1826.7	1824.7
20°	1673.0	1675.0	1681.3	1693.7	1691.7
22.5°	1525.4	1529.6	1546.2	1550.3	1546.2
25°	1382.0	1379.9	1394.5	1402.8	1406.9
27.5°	1251.1	1240.7	1242.8	1255.2	1267.7
30°	1113.9	1109.8	1089.0	1122.2	1136.8
32.5°	978.8	980.9	953.9	989.2	997.5
35°	829.2	852.1	833.4	864.5	847.9
37.5°	650.5	712.8	719.1	723.2	667.1
40°	471.8	552.8	613.1	557.0	480.1
42.5°	328.4	394.9	517.5	403.2	326.3
45°	220.3	272.2	415.6	274.3	224.4
47.5°	153.8	182.9	301.3	185.0	153.8
50°	110.1	126.8	191.2	128.8	110.1
52.5°	81.1	91.4	116.4	91.4	81.1
55°	54.0	66.5	70.7	66.5	56.1
57.5°	33.3	43.6	45.7	43.6	31.2
60°	12.5	22.9	27.0	22.9	12.5
62.5°	2.1	6.2	16.6	8.3	2.1
65°	0.0	0.0	8.3	0.0	0.0
67.5°	0.0	0.0	2.1	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)