

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: P238135

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238135
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: PRS620D010-S6M12-61SNDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

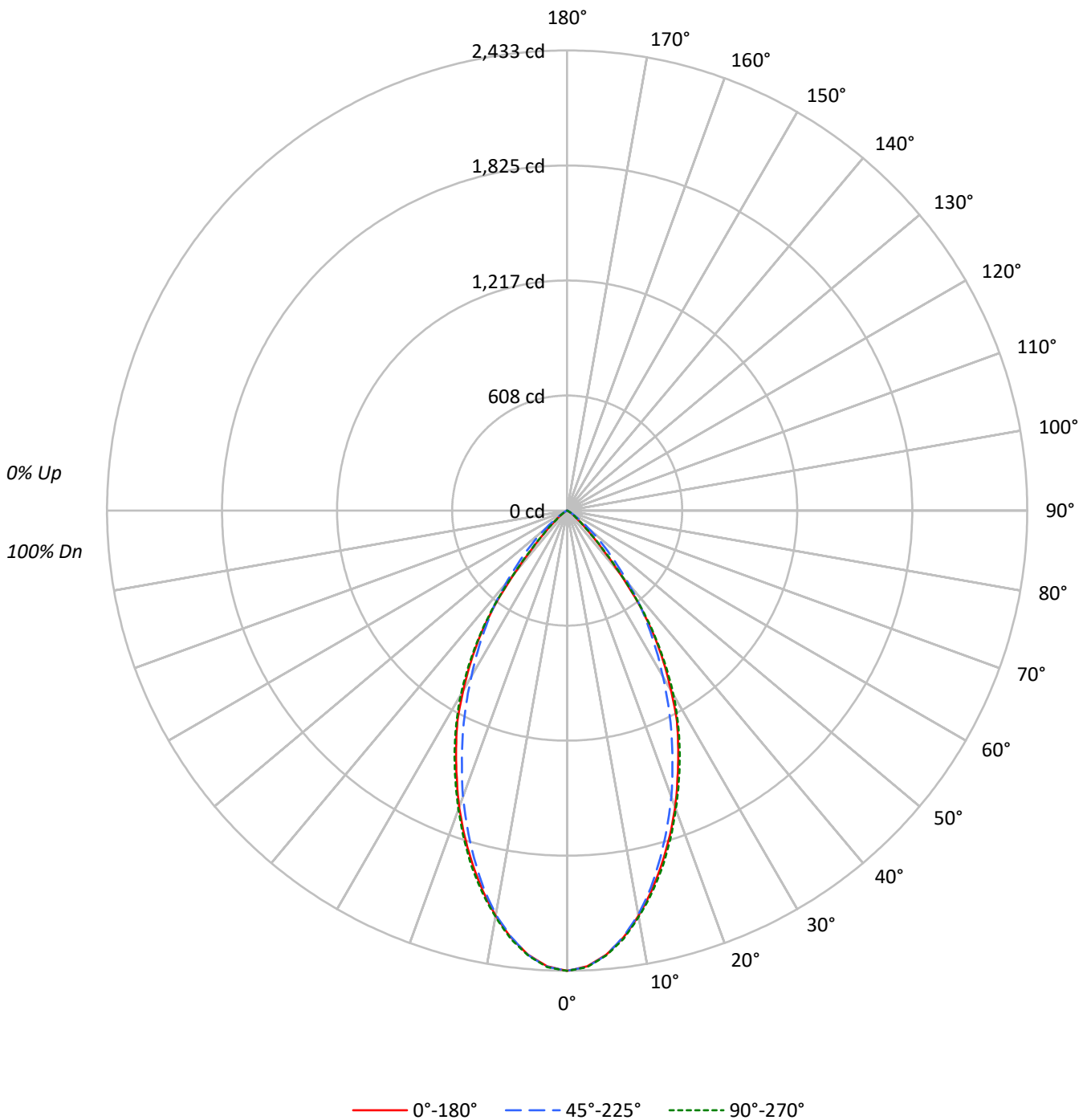
Lumens per Lamp: N/A
Luminaire Lumens: 2092.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	104767	104767	104767
5°	101883	101978	102073
10°	95091	94807	95375
15°	86212	84758	86889
20°	76481	73796	76980
25°	65996	62077	66927
30°	54608	50288	55901
35°	41644	39363	42443
40°	24157	28305	24888
45°	10704	18504	10972
50°	5091	10322	5091
55°	2770	4234	2770
60°	939	1679	939
65°	0	438	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°	219.2	10.5
10°-20°	535.3	25.6
20°-30°	617.1	29.5
30°-40°	475.8	22.7
40°-50°	195.3	9.3
50°-60°	46.0	2.2
60°-70°	3.8	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°	1371.6	65.5
0°-40°	1847.5	88.3
0°-60°	2088.7	99.8
0°-90°	2092.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2357	2357	2360	2362	2362	219
15°	1934	1919	1902	1921	1949	540
25°	1389	1342	1307	1354	1409	635
35°	792	753	749	771	808	482
45°	176	228	304	234	180	155
55°	37	48	56	48	37	34
65°	0	0	4	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°	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2411.6	2413.8	2413.8	2415.9	2415.9
5°	2357.3	2357.3	2359.5	2361.7	2361.7
7.5°	2277.0	2274.9	2272.7	2277.0	2283.5
10°	2175.0	2168.5	2168.5	2172.8	2181.5
12.5°	2060.0	2049.1	2042.6	2051.3	2070.8
15°	1934.1	1918.9	1901.5	1921.0	1949.3
17.5°	1803.8	1782.1	1756.1	1784.3	1816.8
20°	1669.2	1634.5	1610.6	1641.0	1680.1
22.5°	1526.0	1489.1	1454.3	1499.9	1543.3
25°	1389.2	1341.5	1306.7	1354.5	1408.8
27.5°	1256.8	1193.9	1157.0	1209.1	1269.8
30°	1098.4	1052.8	1011.5	1065.8	1124.4
32.5°	946.4	898.7	879.1	913.8	965.9
35°	792.3	753.2	748.9	770.6	807.5
37.5°	620.8	618.6	631.7	627.3	633.8
40°	429.8	481.9	503.6	486.2	442.8
42.5°	277.8	338.6	392.9	347.3	293.0
45°	175.8	227.9	303.9	234.4	180.2
47.5°	110.7	147.6	227.9	151.9	112.9
50°	76.0	97.7	154.1	97.7	76.0
52.5°	52.1	67.3	95.5	67.3	54.3
55°	36.9	47.8	56.4	47.8	36.9
57.5°	21.7	30.4	32.6	30.4	23.9
60°	10.9	17.4	19.5	17.4	10.9
62.5°	0.0	6.5	10.9	6.5	0.0
65°	0.0	0.0	4.3	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)