

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: P238245

Luminaire Tested: **PRS620D010-S6M12-61SMDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

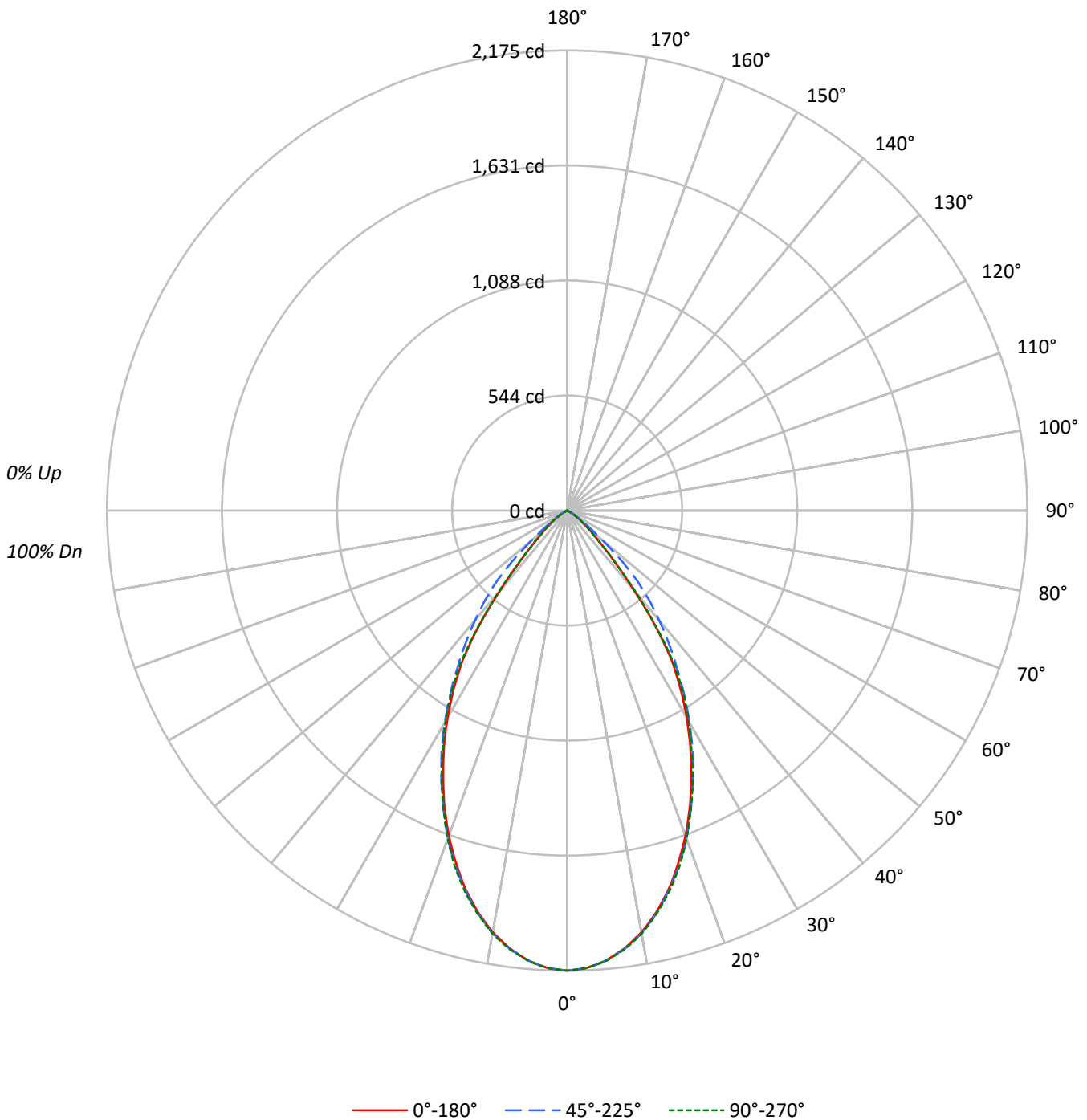
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66					66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61					61			
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57					57			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52					52			
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49					49			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93633	93633	93633
5°	92219	92219	92314
10°	88476	88664	88760
15°	82610	82802	83091
20°	74932	75624	75624
25°	65906	66828	66723
30°	56204	57492	57169
35°	45134	47400	46038
40°	27524	37955	28372
45°	14583	28247	14711
50°	8380	14596	8380
55°	5180	6313	5180
60°	1860	2971	1860
65°	438	1100	438
70°	277	277	277
75°	366	366	366
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	8.9
10°-20°	518.9	23.0
20°-30°	640.5	28.4
30°-40°	547.0	24.3
40°-50°	261.8	11.6
50°-60°	73.6	3.3
60°-70°	9.6	0.4
70°-80°	1.4	0.1
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°	1359.8	60.3
0°-40°	1906.9	84.6
0°-60°	2242.3	99.5
0°-90°	2253.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2134	2136	2134	2136	2136	200
15°	1853	1855	1858	1864	1864	517
25°	1387	1394	1407	1407	1404	635
35°	859	891	902	902	876	518
45°	240	298	464	300	242	201
55°	69	80	84	78	69	62
65°	4	4	11	4	4	7
75°	2	2	2	2	2	1
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°	2174.7	2174.7	2174.7	2174.7	2174.7
2.5°	2163.9	2163.9	2163.9	2163.9	2163.9
5°	2133.7	2135.9	2133.7	2135.9	2135.9
7.5°	2086.3	2088.4	2088.4	2090.6	2090.6
10°	2023.7	2025.9	2028.0	2028.0	2030.2
12.5°	1946.0	1946.0	1950.4	1952.5	1952.5
15°	1853.3	1855.4	1857.6	1864.1	1864.1
17.5°	1747.5	1751.9	1758.3	1760.5	1764.8
20°	1635.4	1635.4	1650.5	1648.3	1650.5
22.5°	1514.5	1521.0	1527.5	1531.8	1527.5
25°	1387.3	1393.7	1406.7	1406.7	1404.5
27.5°	1260.0	1266.4	1283.7	1277.2	1272.9
30°	1130.5	1137.0	1156.4	1145.6	1149.9
32.5°	996.8	1016.2	1027.0	1027.0	1016.2
35°	858.7	891.0	901.8	901.8	875.9
37.5°	679.6	757.3	787.5	763.7	688.2
40°	489.7	591.1	675.3	601.9	504.8
42.5°	343.0	429.3	571.7	435.8	347.4
45°	239.5	297.7	463.9	299.9	241.6
47.5°	168.3	207.1	336.6	207.1	168.3
50°	125.1	146.7	217.9	144.6	125.1
52.5°	94.9	107.9	133.8	105.7	94.9
55°	69.0	79.8	84.1	77.7	69.0
57.5°	43.1	53.9	53.9	53.9	41.0
60°	21.6	30.2	34.5	30.2	21.6
62.5°	6.5	12.9	21.6	12.9	6.5
65°	4.3	4.3	10.8	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
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)