

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: P238060

Luminaire Tested: **PRS620D010-S6M12-64SMDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SMDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2413.8 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

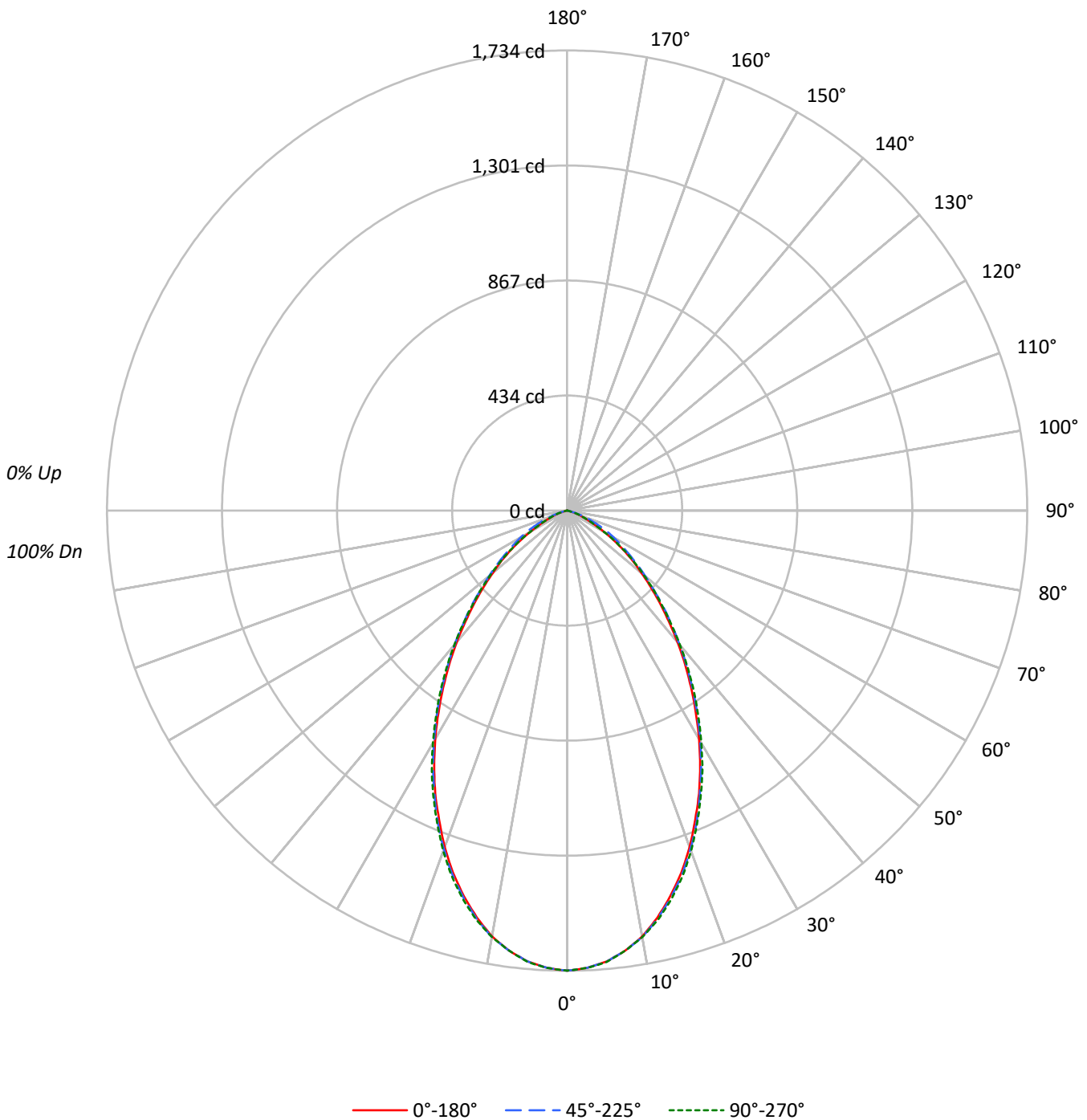
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72				
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64				
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40				
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74641	74641	74641
5°	73708	73708	73803
10°	71242	71338	71338
15°	67027	67316	67606
20°	61837	62236	62534
25°	55868	56177	56590
30°	49408	49836	50268
35°	42769	43452	43794
40°	36342	37073	37197
45°	30122	31182	30786
50°	24415	25721	25145
55°	19382	21176	19705
60°	13829	17377	13829
65°	9067	13265	9281
70°	6005	8195	6282
75°	2895	3610	2895
80°	0	545	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	6.6
10°-20°	422.5	17.5
20°-30°	542.1	22.5
30°-40°	515.3	21.3
40°-50°	393.5	16.3
50°-60°	245.9	10.2
60°-70°	109.8	4.5
70°-80°	24.3	1.0
80°-90°	0.1	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°	1125.0	46.6
0°-40°	1640.3	68.0
0°-60°	2279.7	94.4
0°-90°	2413.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1705	1705	1705	1708	1708	160
15°	1504	1506	1510	1514	1517	421
25°	1176	1178	1182	1187	1191	538
35°	814	822	827	829	833	509
45°	495	506	512	514	506	383
55°	258	273	282	278	262	232
65°	89	102	130	104	91	93
75°	17	22	22	22	17	20
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°	1733.6	1733.6	1733.6	1733.6	1733.6
2.5°	1725.0	1725.0	1725.0	1725.0	1725.0
5°	1705.4	1705.4	1705.4	1707.6	1707.6
7.5°	1672.9	1672.9	1672.9	1675.1	1672.9
10°	1629.5	1629.5	1631.7	1631.7	1631.7
12.5°	1570.9	1573.1	1575.3	1577.4	1579.6
15°	1503.7	1505.8	1510.2	1514.5	1516.7
17.5°	1429.9	1429.9	1438.6	1445.1	1445.1
20°	1349.6	1351.8	1358.3	1360.4	1364.8
22.5°	1260.6	1267.1	1273.7	1275.8	1278.0
25°	1176.0	1178.2	1182.5	1186.9	1191.2
27.5°	1084.9	1087.1	1093.6	1095.7	1104.4
30°	993.8	998.1	1002.4	1006.8	1011.1
32.5°	902.6	907.0	913.5	915.6	920.0
35°	813.7	822.3	826.7	828.9	833.2
37.5°	729.0	737.7	739.9	746.4	746.4
40°	646.6	655.3	659.6	663.9	661.8
42.5°	566.3	577.2	581.5	588.0	581.5
45°	494.7	505.6	512.1	514.2	505.6
47.5°	427.4	440.5	442.6	444.8	440.5
50°	364.5	377.5	384.0	386.2	375.4
52.5°	312.4	323.3	329.8	327.6	319.0
55°	258.2	273.4	282.1	277.7	262.5
57.5°	208.3	225.7	238.7	227.8	212.6
60°	160.6	180.1	201.8	184.4	160.6
62.5°	119.3	138.9	167.1	138.9	119.3
65°	89.0	102.0	130.2	104.1	91.1
67.5°	65.1	75.9	97.6	75.9	67.3
70°	47.7	56.4	65.1	56.4	49.9
72.5°	32.5	39.1	39.1	39.1	32.5
75°	17.4	21.7	21.7	21.7	17.4
77.5°	2.2	6.5	8.7	6.5	2.2
80°	0.0	0.0	2.2	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)