

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: P237995

Luminaire Tested: **PRS620D010-S6M12-64SNDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2383.5 lumens
Efficiency: N/A
Efficacy: 119.2 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

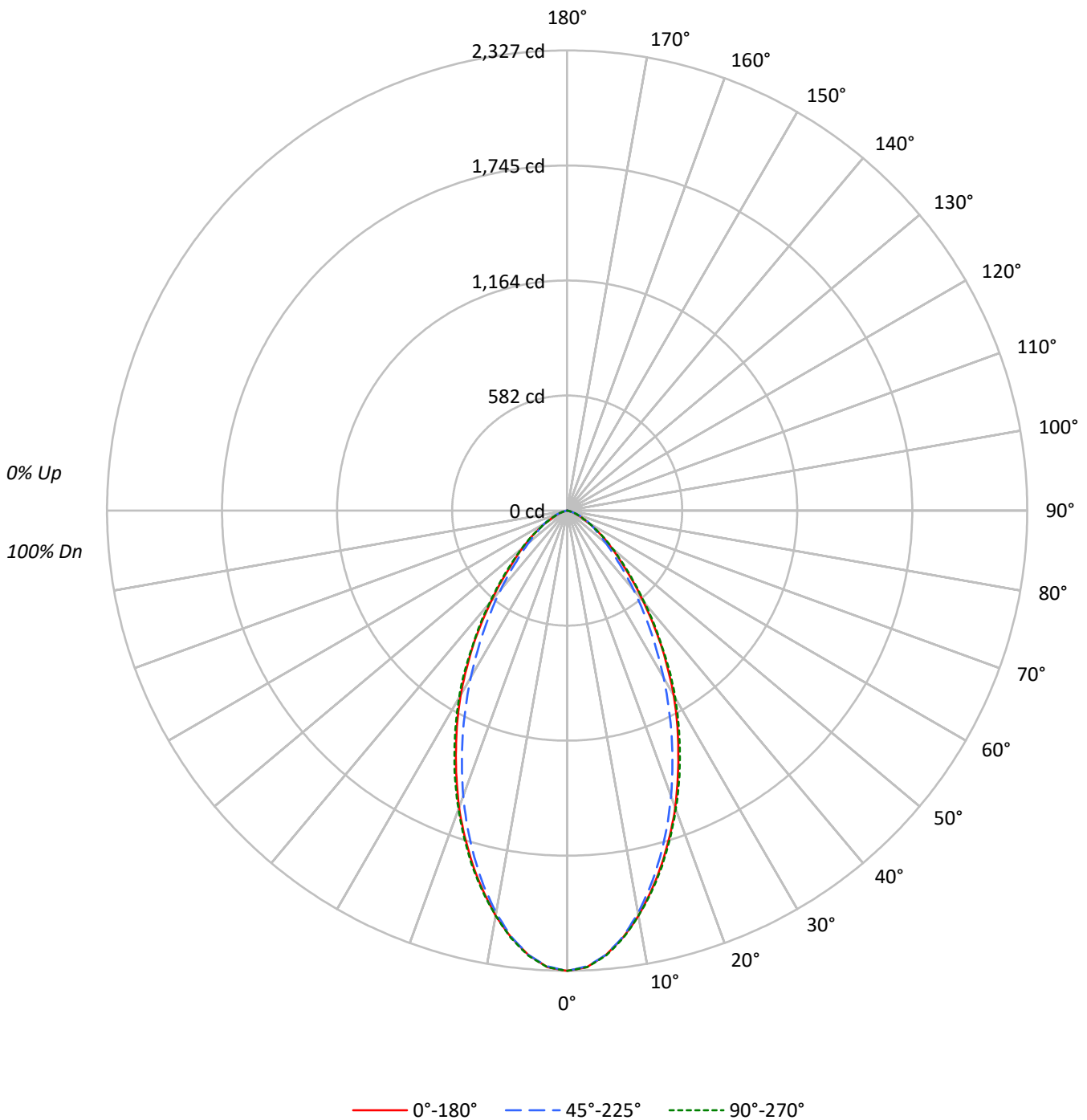
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100208	100208	100208
5°	97448	97448	97630
10°	90946	90308	90946
15°	82441	80867	82811
20°	73219	70364	73603
25°	63184	59331	64072
30°	53515	48454	54345
35°	43363	38228	43799
40°	33521	29317	34223
45°	25306	22018	26195
50°	19626	17121	20182
55°	14976	13572	15291
60°	10919	11453	10919
65°	7834	8894	7621
70°	5489	6282	5489
75°	3111	3460	3111
80°	1041	1041	1041
85°	1037	1037	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	8.8
10°-20°	511.1	21.4
20°-30°	590.8	24.8
30°-40°	484.6	20.3
40°-50°	306.3	12.9
50°-60°	173.9	7.3
60°-70°	82.6	3.5
70°-80°	23.0	1.0
80°-90°	1.7	0.1
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°	1311.4	55.0
0°-40°	1796.0	75.4
0°-60°	2276.2	95.5
0°-90°	2383.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	2255	2255	2255	2261	2259	210
15°	1850	1835	1814	1839	1858	516
25°	1330	1282	1249	1293	1349	610
35°	825	765	727	777	833	514
45°	416	382	362	389	430	328
55°	200	191	181	195	204	181
65°	77	81	87	81	75	78
75°	19	21	21	21	19	21
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2310.8	2308.7	2306.7	2308.7	2310.8
5°	2254.7	2254.7	2254.7	2260.9	2258.9
7.5°	2175.7	2173.7	2171.6	2177.8	2179.9
10°	2080.2	2071.8	2065.6	2076.0	2080.2
12.5°	1967.9	1957.5	1945.1	1959.6	1974.2
15°	1849.5	1834.9	1814.2	1839.1	1857.8
17.5°	1724.8	1697.8	1677.0	1704.0	1733.1
20°	1598.0	1564.8	1535.7	1564.8	1606.4
22.5°	1463.0	1419.3	1390.2	1427.6	1479.6
25°	1330.0	1282.2	1248.9	1292.6	1348.7
27.5°	1203.2	1145.0	1107.6	1157.5	1219.8
30°	1076.4	1014.1	974.6	1024.5	1093.1
32.5°	947.6	887.3	845.8	899.8	966.3
35°	825.0	764.7	727.3	777.2	833.3
37.5°	704.5	648.4	619.3	658.7	721.1
40°	596.4	546.5	521.6	556.9	608.9
42.5°	502.9	457.2	436.4	465.5	515.4
45°	415.6	382.4	361.6	388.6	430.2
47.5°	349.1	320.0	303.4	326.3	359.5
50°	293.0	270.1	255.6	274.3	301.3
52.5°	245.2	226.5	214.0	230.7	251.4
55°	199.5	191.2	180.8	195.3	203.7
57.5°	157.9	155.9	155.9	157.9	160.0
60°	126.8	126.8	133.0	128.8	126.8
62.5°	97.7	101.8	112.2	101.8	97.7
65°	76.9	81.0	87.3	81.0	74.8
67.5°	58.2	62.3	66.5	62.3	56.1
70°	43.6	47.8	49.9	47.8	43.6
72.5°	31.2	33.2	33.2	33.2	29.1
75°	18.7	20.8	20.8	20.8	18.7
77.5°	6.2	10.4	10.4	10.4	6.2
80°	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1
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)