

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: P238066

Luminaire Tested: **PRS630D010-S6M24-64SMDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238066
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: PRS630D010-S6M24-64SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2930.9 lumens
Efficiency: N/A
Efficacy: 114.9 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

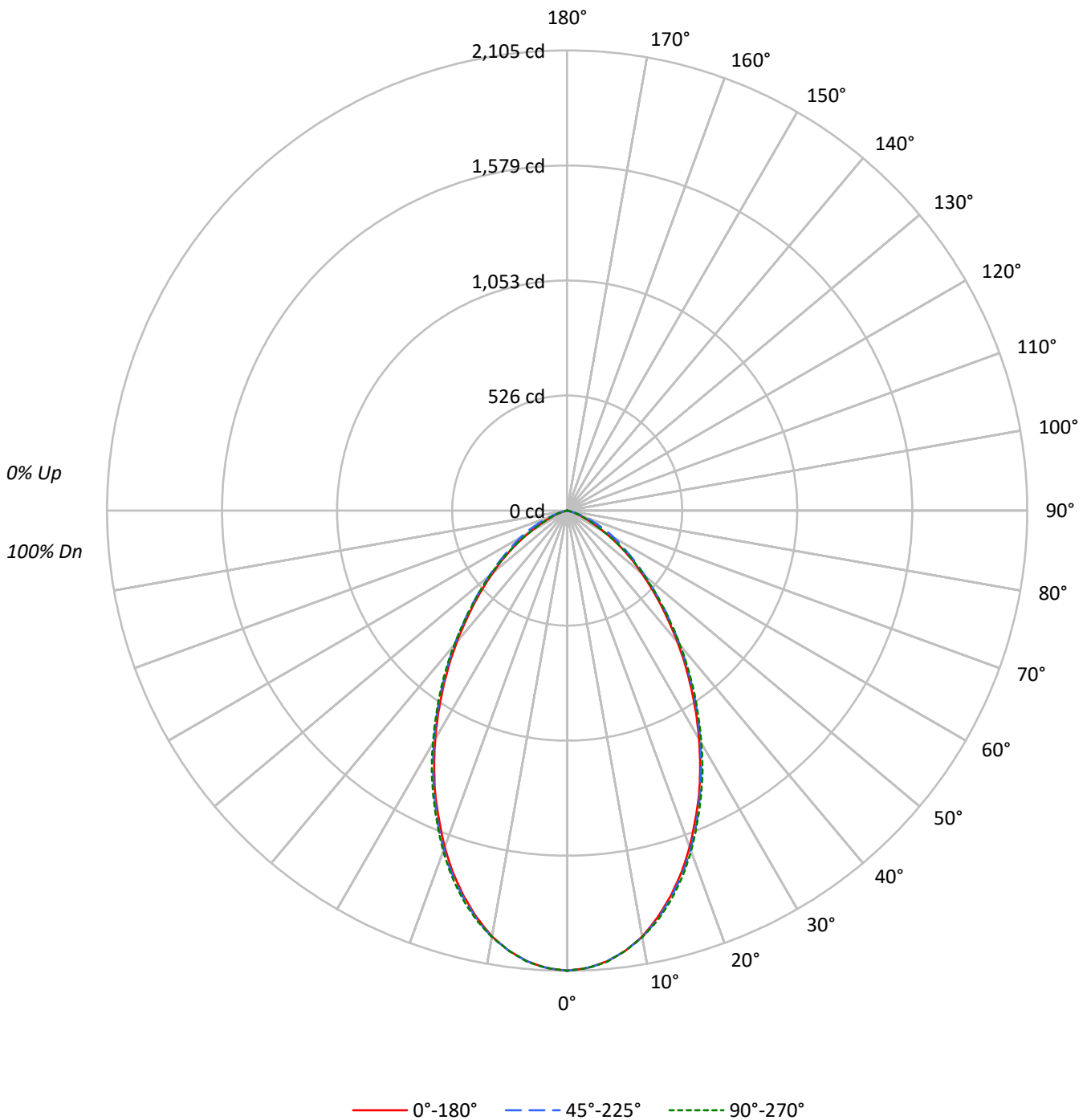
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90636	90636	90636
5°	89500	89500	89617
10°	86504	86618	86618
15°	81384	81736	82088
20°	75083	75569	75931
25°	67840	68215	68714
30°	59993	60515	61037
35°	51931	52761	53176
40°	44127	45015	45166
45°	36577	37861	37380
50°	29647	31234	30531
55°	23533	25710	23931
60°	16792	21097	16792
65°	11003	16107	11278
70°	7301	9945	7629
75°	3510	4375	3510
80°	0	645	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	6.6
10°-20°	513.0	17.5
20°-30°	658.3	22.5
30°-40°	625.7	21.3
40°-50°	477.8	16.3
50°-60°	298.5	10.2
60°-70°	133.4	4.5
70°-80°	29.4	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
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0°-30°	1366.1	46.6
0°-40°	1991.8	68.0
0°-60°	2768.1	94.4
0°-90°	2930.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2071	2071	2071	2074	2074	195
15°	1826	1828	1834	1839	1842	511
25°	1428	1431	1436	1441	1446	654
35°	988	998	1004	1006	1012	618
45°	601	614	622	624	614	465
55°	314	332	342	337	319	281
65°	108	124	158	126	111	113
75°	21	26	26	26	21	24
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°	2105.1	2105.1	2105.1	2105.1	2105.1
2.5°	2094.5	2094.5	2094.5	2094.5	2094.5
5°	2070.8	2070.8	2070.8	2073.5	2073.5
7.5°	2031.3	2031.3	2031.3	2033.9	2031.3
10°	1978.6	1978.6	1981.2	1981.2	1981.2
12.5°	1907.5	1910.1	1912.7	1915.4	1918.0
15°	1825.8	1828.4	1833.7	1839.0	1841.6
17.5°	1736.2	1736.2	1746.8	1754.7	1754.7
20°	1638.7	1641.4	1649.3	1651.9	1657.2
22.5°	1530.7	1538.6	1546.5	1549.2	1551.8
25°	1428.0	1430.6	1435.9	1441.1	1446.4
27.5°	1317.3	1320.0	1327.9	1330.5	1341.0
30°	1206.7	1211.9	1217.2	1222.5	1227.7
32.5°	1096.0	1101.3	1109.2	1111.8	1117.1
35°	988.0	998.5	1003.8	1006.4	1011.7
37.5°	885.2	895.8	898.4	906.3	906.3
40°	785.1	795.7	800.9	806.2	803.6
42.5°	687.6	700.8	706.1	714.0	706.1
45°	600.7	613.9	621.8	624.4	613.9
47.5°	519.0	534.8	537.5	540.1	534.8
50°	442.6	458.4	466.3	469.0	455.8
52.5°	379.4	392.6	400.5	397.8	387.3
55°	313.5	332.0	342.5	337.2	318.8
57.5°	252.9	274.0	289.8	276.6	258.2
60°	195.0	218.7	245.0	223.9	195.0
62.5°	144.9	168.6	202.9	168.6	144.9
65°	108.0	123.8	158.1	126.5	110.7
67.5°	79.0	92.2	118.6	92.2	81.7
70°	58.0	68.5	79.0	68.5	60.6
72.5°	39.5	47.4	47.4	47.4	39.5
75°	21.1	26.3	26.3	26.3	21.1
77.5°	2.6	7.9	10.5	7.9	2.6
80°	0.0	0.0	2.6	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)