

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: P238086

Luminaire Tested: **PRS630D010-S6M24-64SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SNDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2837.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

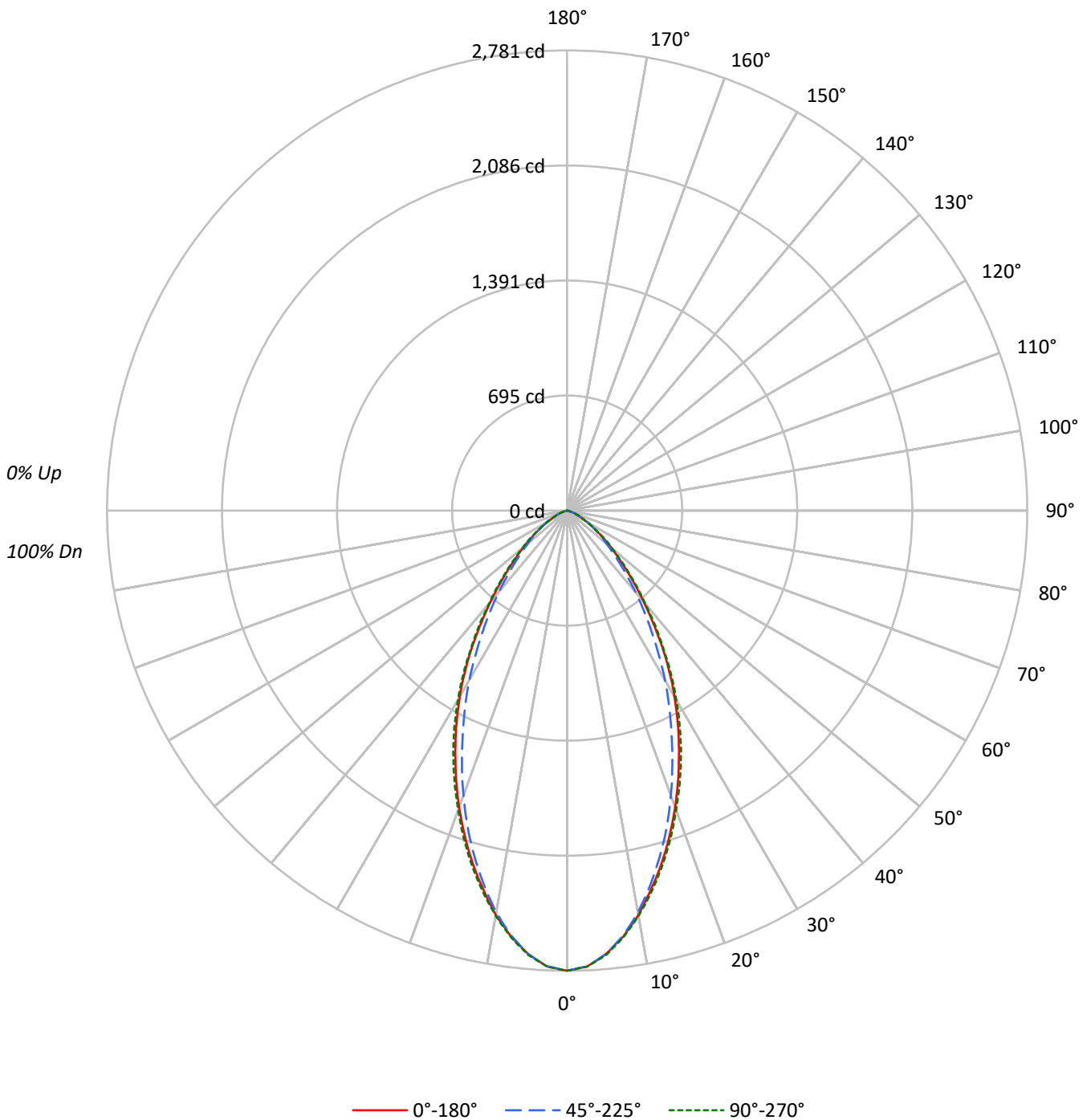
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	76	72		79	74	71		77	73	70	68
5	88	78	71	66	86	77	70	66	75	69	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	55	76	66	60	55	65	59	55		64	59	55		63	58	54	53
8	73	63	56	51	72	62	56	51	61	55	51		60	54	51		59	54	50	49
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	49	44	65	55	48	44	54	48	44		53	48	44		52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	119721	119721	119721
5°	116297	116297	116513
10°	108482	107831	108701
15°	98376	96486	99045
20°	87413	83981	88211
25°	75939	70965	77365
30°	64472	58770	65586
35°	52430	46664	53087
40°	40507	36022	41210
45°	30524	27181	31584
50°	23049	20711	23886
55°	16657	16101	17220
60°	11814	12882	12030
65°	8130	9403	8130
70°	5338	6282	5338
75°	2495	2911	2495
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	8.8
10°-20°	610.1	21.5
20°-30°	709.8	25.0
30°-40°	587.1	20.7
40°-50°	370.4	13.1
50°-60°	201.5	7.1
60°-70°	88.5	3.1
70°-80°	20.4	0.7
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°	1570.0	55.3
0°-40°	2157.1	76.0
0°-60°	2729.0	96.2
0°-90°	2837.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2781	2781	2781	2781	2781	
5°	2691	2693	2691	2693	2696	250
15°	2207	2182	2165	2194	2222	616
25°	1598	1536	1494	1556	1628	733
35°	998	923	888	938	1010	621
45°	501	461	446	469	519	393
55°	222	220	214	224	229	205
65°	80	87	92	87	80	82
75°	15	18	18	20	15	17
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°	2780.6	2780.6	2780.6	2780.6	2780.6
2.5°	2758.1	2755.6	2755.6	2758.1	2758.1
5°	2690.8	2693.3	2690.8	2693.3	2695.8
7.5°	2596.0	2593.6	2591.1	2598.5	2601.0
10°	2481.3	2473.8	2466.4	2478.8	2486.3
12.5°	2344.2	2331.7	2319.2	2339.2	2359.1
15°	2207.0	2182.1	2164.6	2194.5	2222.0
17.5°	2059.9	2027.5	2002.5	2037.4	2077.3
20°	1907.8	1865.4	1832.9	1875.3	1925.2
22.5°	1753.1	1700.8	1660.9	1715.7	1778.1
25°	1598.5	1536.2	1493.8	1556.1	1628.5
27.5°	1448.9	1376.6	1334.2	1394.0	1476.3
30°	1296.8	1222.0	1182.1	1241.9	1319.2
32.5°	1147.1	1072.3	1027.4	1087.3	1167.1
35°	997.5	922.7	887.8	937.7	1010.0
37.5°	847.9	785.5	758.1	800.5	872.8
40°	720.7	663.4	640.9	673.3	733.2
42.5°	603.5	551.1	533.7	566.1	623.5
45°	501.3	461.4	446.4	468.8	518.7
47.5°	414.0	384.0	371.6	394.0	428.9
50°	344.1	321.7	309.2	326.7	356.6
52.5°	281.8	266.8	256.9	271.8	291.8
55°	221.9	219.5	214.5	224.4	229.4
57.5°	177.1	177.1	179.6	179.6	179.6
60°	137.2	142.1	149.6	144.6	139.7
62.5°	104.7	112.2	119.7	112.2	107.2
65°	79.8	87.3	92.3	87.3	79.8
67.5°	59.9	64.8	69.8	64.8	59.9
70°	42.4	47.4	49.9	47.4	42.4
72.5°	27.4	32.4	32.4	32.4	27.4
75°	15.0	17.5	17.5	20.0	15.0
77.5°	2.5	5.0	7.5	7.5	2.5
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)