

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: P238231

Luminaire Tested: **PRS630D010-S6M24-61SNDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 2862.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

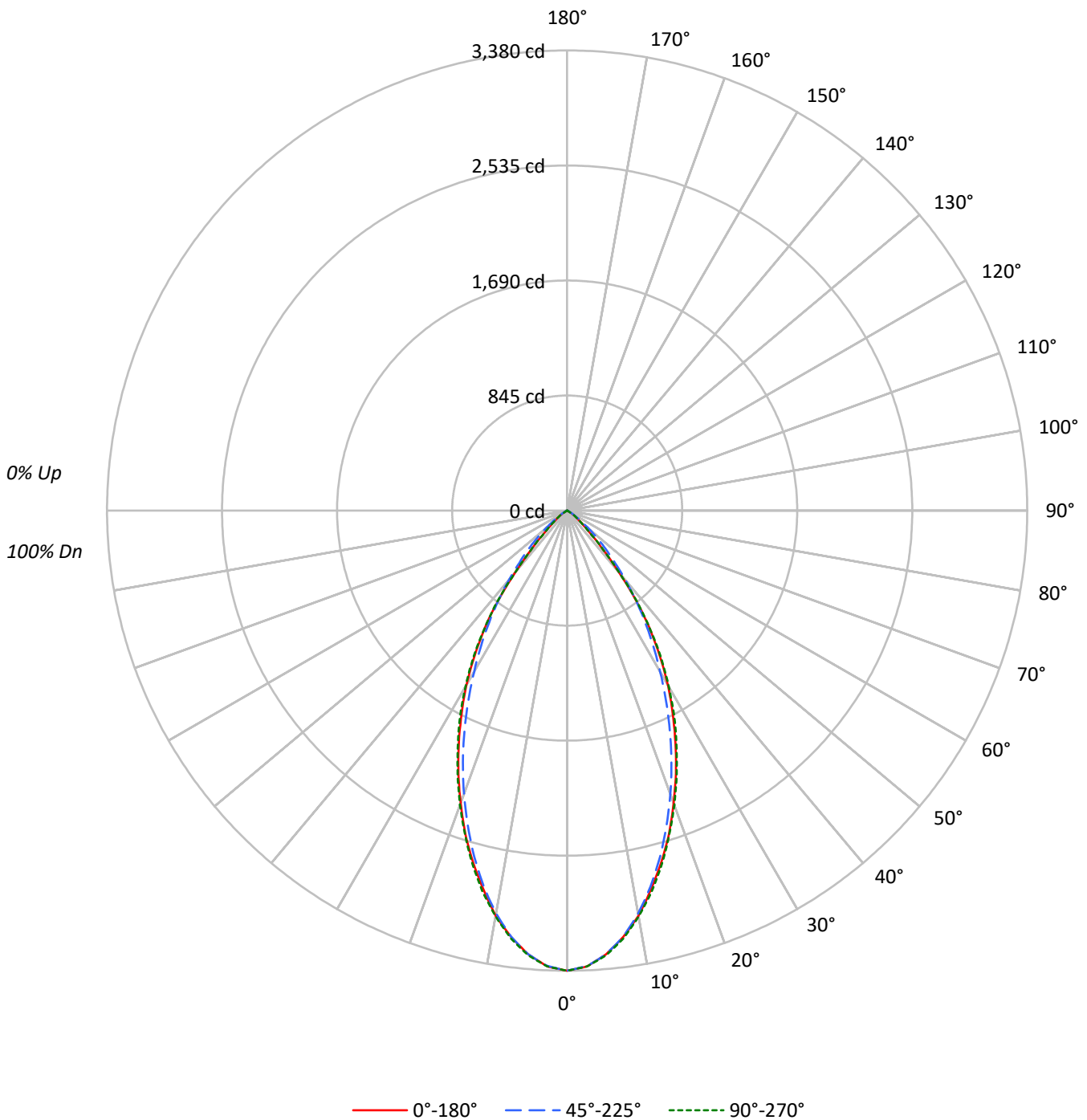
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238231

CATALOG NUMBER: PRS630D010-S6M24-61SNDH-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238231

CATALOG NUMBER: PRS630D010-S6M24-61SNDH-4000K

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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52					52			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	145520	145520	145520
5°	141403	141403	141749
10°	132091	131400	132323
15°	119161	117396	119865
20°	104728	101470	105457
25°	89427	84790	90301
30°	73660	67893	74187
35°	55568	52383	55846
40°	33341	37343	33341
45°	15734	24399	15734
50°	8125	13952	7944
55°	4549	6133	4549
60°	1817	2721	1817
65°	540	1070	540
70°	327	327	327
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238231

CATALOG NUMBER: PRS630D010-S6M24-61SNDH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	10.6
10°-20°	739.6	25.8
20°-30°	838.9	29.3
30°-40°	634.4	22.2
40°-50°	266.4	9.3
50°-60°	69.1	2.4
60°-70°	8.8	0.3
70°-80°	1.0	0.0
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°	1882.7	65.8
0°-40°	2517.1	87.9
0°-60°	2852.6	99.7
0°-90°	2862.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2862.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3380	3380	3380	3380	3380	
5°	3272	3274	3272	3277	3280	304
15°	2673	2655	2634	2660	2689	745
25°	1882	1830	1785	1840	1901	860
35°	1057	1012	997	1020	1062	647
45°	258	316	401	316	258	224
55°	61	71	82	71	61	57
65°	5	3	10	3	5	6
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238231

CATALOG NUMBER: PRS630D010-S6M24-61SNDH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3379.8	3379.8	3379.8	3379.8	3379.8
2.5°	3350.8	3348.2	3348.2	3350.8	3350.8
5°	3271.7	3274.4	3271.7	3277.0	3279.7
7.5°	3158.4	3158.4	3155.7	3161.0	3168.9
10°	3021.3	3010.7	3005.5	3016.0	3026.6
12.5°	2847.3	2839.4	2828.8	2847.3	2868.4
15°	2673.3	2654.8	2633.7	2660.1	2689.1
17.5°	2488.7	2451.8	2428.1	2462.4	2494.0
20°	2285.7	2248.8	2214.6	2251.5	2301.6
22.5°	2088.0	2035.3	2001.0	2043.2	2101.2
25°	1882.4	1829.6	1784.8	1840.2	1900.8
27.5°	1676.7	1621.4	1571.3	1631.9	1703.1
30°	1481.6	1413.1	1365.6	1428.9	1492.2
32.5°	1265.5	1202.2	1175.8	1220.6	1286.6
35°	1057.2	1012.4	996.6	1020.3	1062.5
37.5°	830.5	819.9	825.2	835.7	843.6
40°	593.2	643.3	664.4	645.9	593.2
42.5°	395.5	464.0	519.4	464.0	400.7
45°	258.4	316.4	400.7	316.4	258.4
47.5°	168.7	213.5	297.9	210.9	168.7
50°	121.3	142.4	208.3	142.4	118.6
52.5°	87.0	100.2	134.5	100.2	87.0
55°	60.6	71.2	81.7	71.2	60.6
57.5°	39.5	47.5	47.5	47.5	39.5
60°	21.1	29.0	31.6	29.0	21.1
62.5°	5.3	13.2	18.5	13.2	5.3
65°	5.3	2.6	10.5	2.6	5.3
67.5°	2.6	2.6	5.3	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	0.0	0.0	0.0	0.0	0.0
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)