

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: P238057

Luminaire Tested: **PRS640D010-S6M24-64SMDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238057
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: PRS640D010-S6M24-64SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3971.9 lumens
Efficiency: N/A
Efficacy: 104.5 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

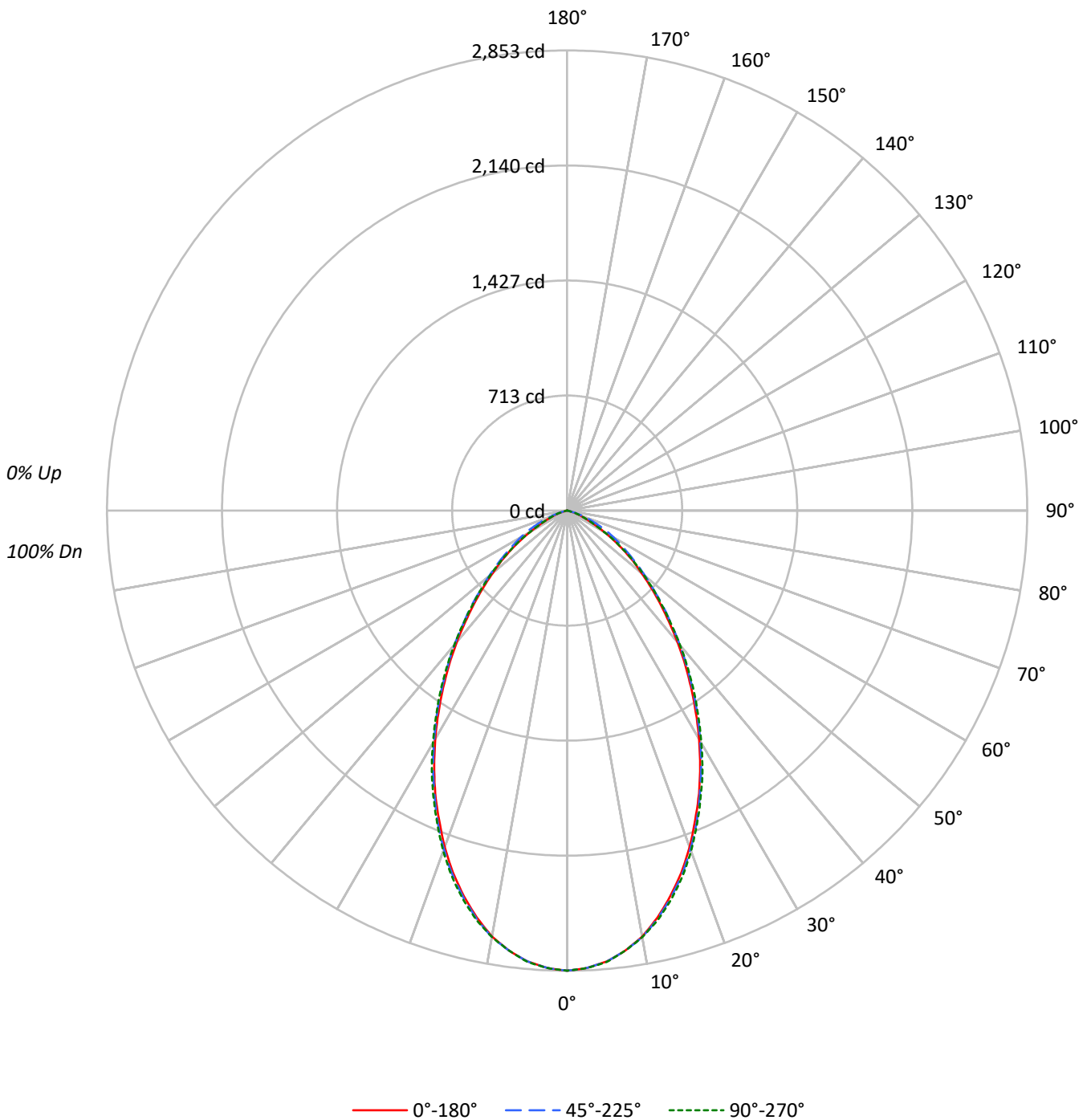
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238057

CATALOG NUMBER: PRS640D010-S6M24-64SMDH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P238057

CATALOG NUMBER: PRS640D010-S6M24-64SMDH-3000K

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				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°	122825	122825	122825
5°	121289	121289	121440
10°	117226	117383	117383
15°	110286	110763	111240
20°	101750	102405	102895
25°	91930	92438	93118
30°	81296	82007	82718
35°	70374	71499	72061
40°	59802	61005	61202
45°	49564	51306	50654
50°	40176	42326	41375
55°	31895	34838	32428
60°	22751	28589	22751
65°	14915	21822	15282
70°	9882	13482	10335
75°	4758	5939	4758
80°	0	893	0
85°	0	0	0



TEST NUMBER: P238057

CATALOG NUMBER: PRS640D010-S6M24-64SMDH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	6.6
10°-20°	695.1	17.5
20°-30°	892.1	22.5
30°-40°	847.9	21.3
40°-50°	647.4	16.3
50°-60°	404.6	10.2
60°-70°	180.7	4.5
70°-80°	39.9	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°	1851.2	46.6
0°-40°	2699.1	68.0
0°-60°	3751.1	94.4
0°-90°	3971.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2806	2806	2806	2810	2810	264
15°	2474	2478	2485	2492	2496	692
25°	1935	1939	1946	1953	1960	886
35°	1339	1353	1360	1364	1371	837
45°	814	832	843	846	832	630
55°	425	450	464	457	432	381
65°	146	168	214	171	150	153
75°	29	36	36	36	29	33
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238057

CATALOG NUMBER: PRS640D010-S6M24-64SMDH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	2838.4	2838.4	2838.4	2838.4	2838.4
5°	2806.3	2806.3	2806.3	2809.8	2809.8
7.5°	2752.7	2752.7	2752.7	2756.3	2752.7
10°	2681.3	2681.3	2684.9	2684.9	2684.9
12.5°	2584.9	2588.5	2592.0	2595.6	2599.2
15°	2474.2	2477.8	2484.9	2492.1	2495.6
17.5°	2352.8	2352.8	2367.1	2377.8	2377.8
20°	2220.7	2224.3	2235.0	2238.6	2245.7
22.5°	2074.4	2085.1	2095.8	2099.3	2102.9
25°	1935.1	1938.7	1945.8	1953.0	1960.1
27.5°	1785.2	1788.7	1799.4	1803.0	1817.3
30°	1635.2	1642.3	1649.5	1656.6	1663.8
32.5°	1485.2	1492.4	1503.1	1506.7	1513.8
35°	1338.9	1353.1	1360.3	1363.9	1371.0
37.5°	1199.6	1213.9	1217.5	1228.2	1228.2
40°	1064.0	1078.2	1085.4	1092.5	1088.9
42.5°	931.9	949.7	956.8	967.6	956.8
45°	814.0	831.9	842.6	846.2	831.9
47.5°	703.4	724.8	728.3	731.9	724.8
50°	599.8	621.2	631.9	635.5	617.7
52.5°	514.1	532.0	542.7	539.1	524.8
55°	424.9	449.9	464.1	457.0	432.0
57.5°	342.7	371.3	392.7	374.9	349.9
60°	264.2	296.3	332.0	303.5	264.2
62.5°	196.4	228.5	274.9	228.5	196.4
65°	146.4	167.8	214.2	171.4	150.0
67.5°	107.1	125.0	160.7	125.0	110.7
70°	78.5	92.8	107.1	92.8	82.1
72.5°	53.6	64.3	64.3	64.3	53.6
75°	28.6	35.7	35.7	35.7	28.6
77.5°	3.6	10.7	14.3	10.7	3.6
80°	0.0	0.0	3.6	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)