

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: P253007

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SWDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 3697.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

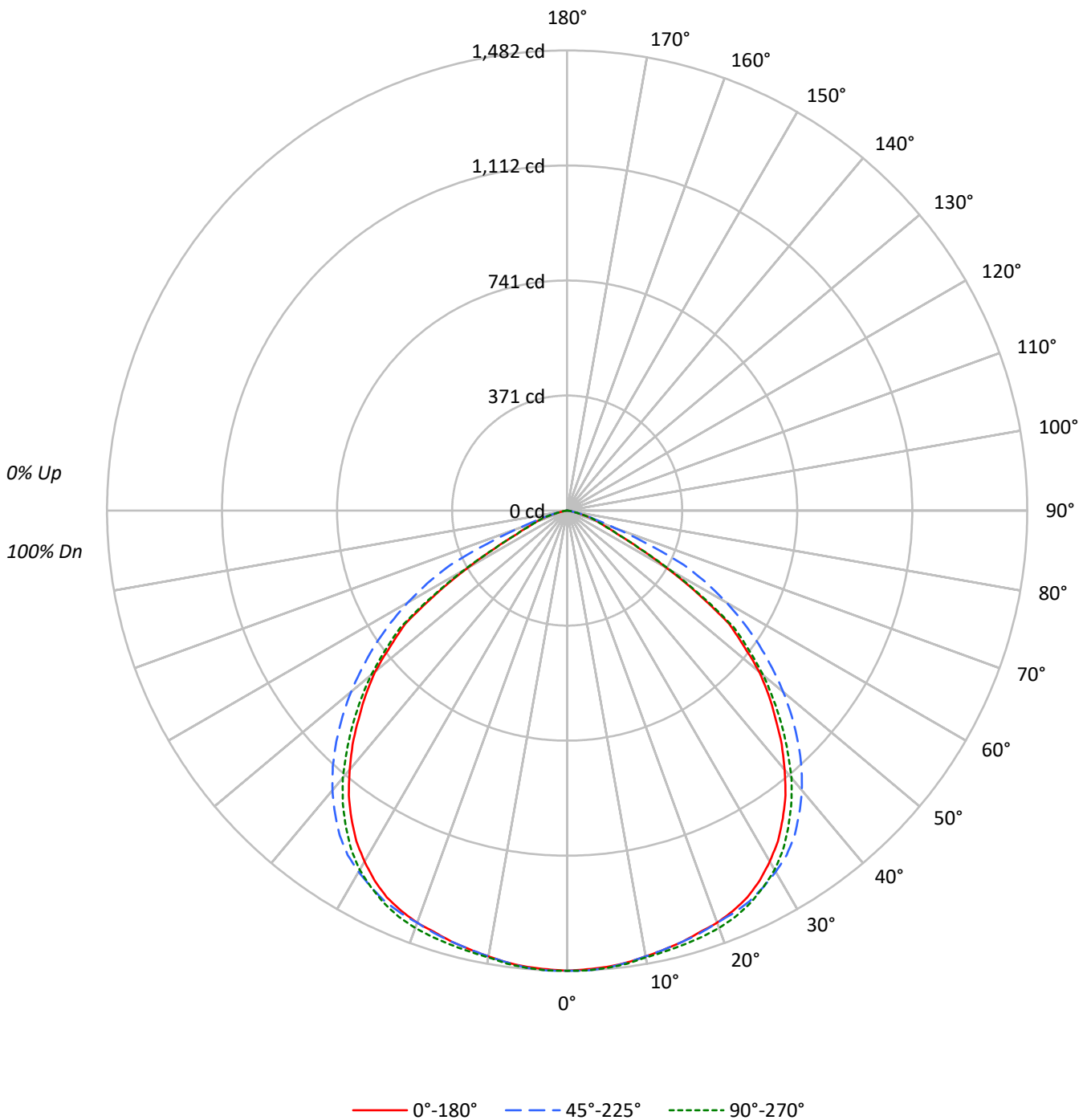
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63821	63821	63821
5°	63767	63914	63914
10°	63744	63744	63892
15°	64058	64058	64522
20°	64728	64728	65526
25°	65298	65958	66286
30°	64875	66774	66431
35°	63646	67121	65292
40°	61213	66103	63169
45°	57839	63983	59538
50°	54075	60834	55241
55°	47802	56682	49108
60°	32059	50935	32963
65°	18083	42188	18083
70°	13583	20582	13143
75°	8101	9266	8684
80°	3446	4314	3446
85°	1729	1729	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.8
10°-20°	407.3	11.0
20°-30°	638.2	17.3
30°-40°	779.6	21.1
40°-50°	775.1	21.0
50°-60°	612.0	16.6
60°-70°	273.9	7.4
70°-80°	63.8	1.7
80°-90°	6.6	0.2
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°	1185.9	32.1
0°-40°	1965.5	53.2
0°-60°	3352.6	90.7
0°-90°	3697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1475	1475	1479	1479	1479	140
15°	1437	1434	1437	1441	1448	406
25°	1374	1378	1388	1392	1395	632
35°	1211	1235	1277	1260	1242	755
45°	950	995	1051	1020	978	733
55°	637	686	755	699	654	545
65°	178	233	414	237	178	199
75°	49	59	56	59	52	55
85°	4	4	4	4	4	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	1478.8	1482.3	1482.3	1482.3	1482.3
5°	1475.4	1475.4	1478.8	1478.8	1478.8
7.5°	1468.4	1468.4	1468.4	1471.9	1471.9
10°	1458.0	1458.0	1458.0	1461.4	1461.4
12.5°	1447.5	1447.5	1447.5	1451.0	1454.5
15°	1437.1	1433.6	1437.1	1440.6	1447.5
17.5°	1423.2	1426.6	1426.6	1433.6	1440.6
20°	1412.7	1412.7	1412.7	1423.2	1430.1
22.5°	1395.3	1395.3	1402.3	1409.3	1416.2
25°	1374.5	1377.9	1388.4	1391.9	1395.3
27.5°	1343.1	1353.6	1367.5	1371.0	1367.5
30°	1304.9	1318.8	1343.1	1339.7	1336.2
32.5°	1263.1	1280.5	1315.3	1304.9	1294.4
35°	1210.9	1235.3	1277.0	1259.6	1242.2
37.5°	1155.2	1186.6	1228.3	1210.9	1186.6
40°	1089.1	1127.4	1176.1	1151.8	1123.9
42.5°	1023.0	1064.8	1117.0	1085.6	1050.8
45°	949.9	995.2	1050.8	1019.5	977.8
47.5°	880.3	925.6	981.3	943.0	901.2
50°	807.3	849.0	908.2	866.4	824.7
52.5°	716.8	772.5	831.6	786.4	737.7
55°	636.8	685.5	755.1	699.4	654.2
57.5°	501.1	598.5	675.0	608.9	515.0
60°	372.3	466.3	591.5	480.2	382.8
62.5°	257.5	344.5	508.0	348.0	261.0
65°	177.5	233.1	414.1	236.6	177.5
67.5°	132.2	156.6	278.4	156.6	132.2
70°	107.9	114.8	163.5	114.8	104.4
72.5°	80.0	90.5	90.5	90.5	83.5
75°	48.7	59.2	55.7	59.2	52.2
77.5°	20.9	27.8	34.8	31.3	20.9
80°	13.9	13.9	17.4	13.9	13.9
82.5°	10.4	10.4	10.4	10.4	10.4
85°	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)