

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: P252992

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252992
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-S6M24-64SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 3721.1 lumens
Efficiency: N/A
Efficacy: 97.9 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

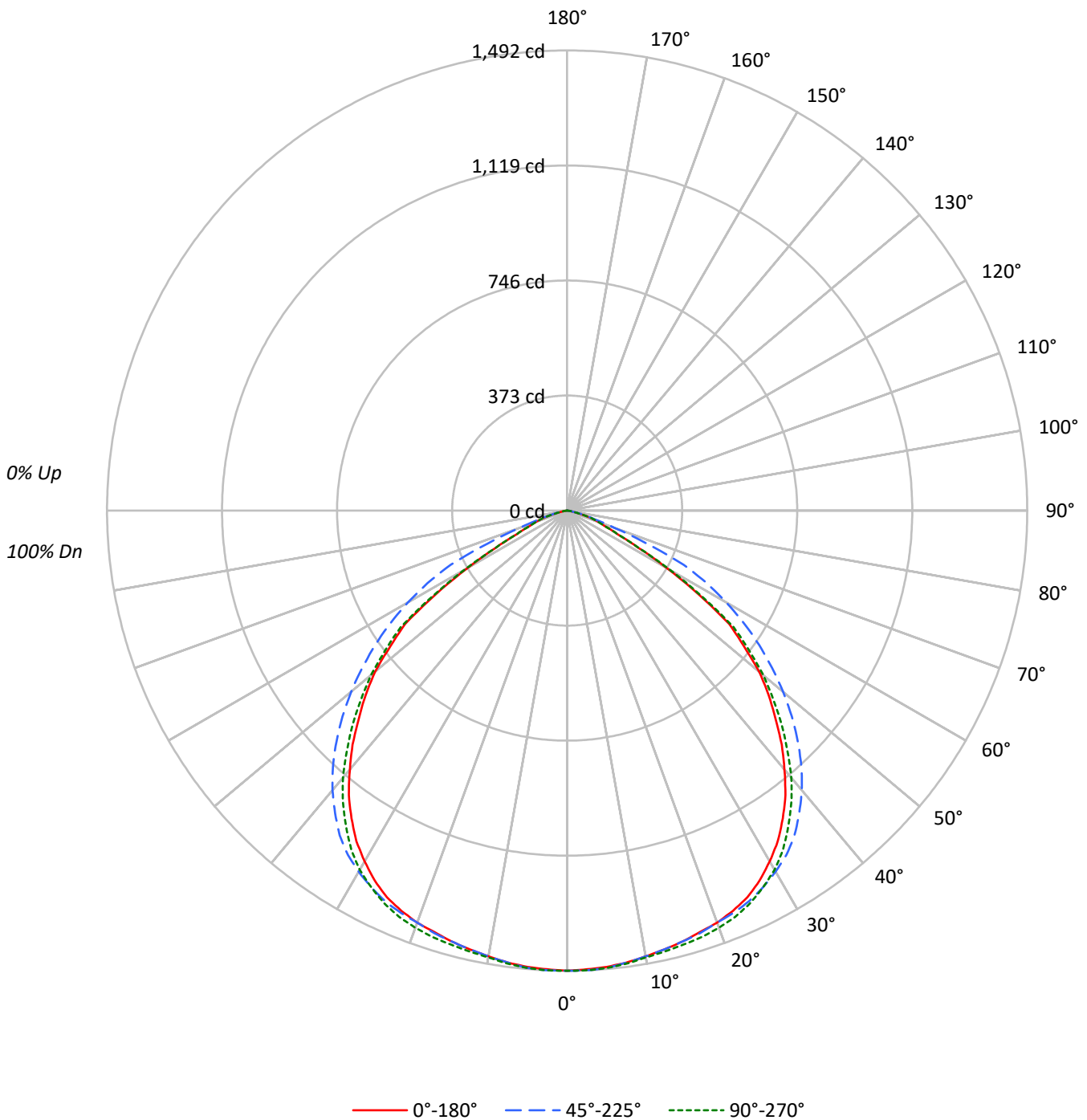
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	64239	64239	64239
5°	64182	64333	64333
10°	64159	64159	64312
15°	64473	64473	64945
20°	65150	65150	65952
25°	65721	66386	66718
30°	65298	67212	66864
35°	64062	67557	65717
40°	61612	66536	63579
45°	58217	64403	59922
50°	54423	61229	55596
55°	48109	57050	49423
60°	32266	51271	33179
65°	18195	42463	18195
70°	13671	20721	13231
75°	8151	9316	8734
80°	3471	4339	3471
85°	1729	1729	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.8
10°-20°	410.0	11.0
20°-30°	642.3	17.3
30°-40°	784.7	21.1
40°-50°	780.2	21.0
50°-60°	616.0	16.6
60°-70°	275.7	7.4
70°-80°	64.2	1.7
80°-90°	6.7	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°	1193.6	32.1
0°-40°	1978.3	53.2
0°-60°	3374.5	90.7
0°-90°	3721.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1485	1485	1488	1488	1488	141
15°	1446	1443	1446	1450	1457	409
25°	1383	1387	1397	1401	1404	636
35°	1219	1243	1285	1268	1250	760
45°	956	1002	1058	1026	984	738
55°	641	690	760	704	658	548
65°	179	235	417	238	179	200
75°	49	60	56	60	52	56
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°	1492.0	1492.0	1492.0	1492.0	1492.0
2.5°	1488.5	1492.0	1492.0	1492.0	1492.0
5°	1485.0	1485.0	1488.5	1488.5	1488.5
7.5°	1478.0	1478.0	1478.0	1481.5	1481.5
10°	1467.5	1467.5	1467.5	1471.0	1471.0
12.5°	1457.0	1457.0	1457.0	1460.5	1464.0
15°	1446.4	1442.9	1446.4	1449.9	1457.0
17.5°	1432.4	1435.9	1435.9	1442.9	1449.9
20°	1421.9	1421.9	1421.9	1432.4	1439.4
22.5°	1404.4	1404.4	1411.4	1418.4	1425.4
25°	1383.4	1386.9	1397.4	1400.9	1404.4
27.5°	1351.9	1362.4	1376.4	1379.9	1376.4
30°	1313.4	1327.4	1351.9	1348.4	1344.9
32.5°	1271.3	1288.8	1323.9	1313.4	1302.9
35°	1218.8	1243.3	1285.3	1267.8	1250.3
37.5°	1162.8	1194.3	1236.3	1218.8	1194.3
40°	1096.2	1134.7	1183.8	1159.3	1131.2
42.5°	1029.7	1071.7	1124.2	1092.7	1057.7
45°	956.1	1001.7	1057.7	1026.2	984.1
47.5°	886.1	931.6	987.6	949.1	907.1
50°	812.5	854.6	914.1	872.1	830.0
52.5°	721.5	777.5	837.0	791.5	742.5
55°	640.9	690.0	760.0	704.0	658.4
57.5°	504.3	602.4	679.4	612.9	518.3
60°	374.7	469.3	595.4	483.3	385.3
62.5°	259.2	346.7	511.3	350.2	262.7
65°	178.6	234.7	416.8	238.2	178.6
67.5°	133.1	157.6	280.2	157.6	133.1
70°	108.6	115.6	164.6	115.6	105.1
72.5°	80.6	91.1	91.1	91.1	84.1
75°	49.0	59.5	56.0	59.5	52.5
77.5°	21.0	28.0	35.0	31.5	21.0
80°	14.0	14.0	17.5	14.0	14.0
82.5°	10.5	10.5	10.5	10.5	10.5
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)