

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: P253042

Luminaire Tested: **PRS640D010-S6M24-64SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253042
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-S6M24-64SWDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

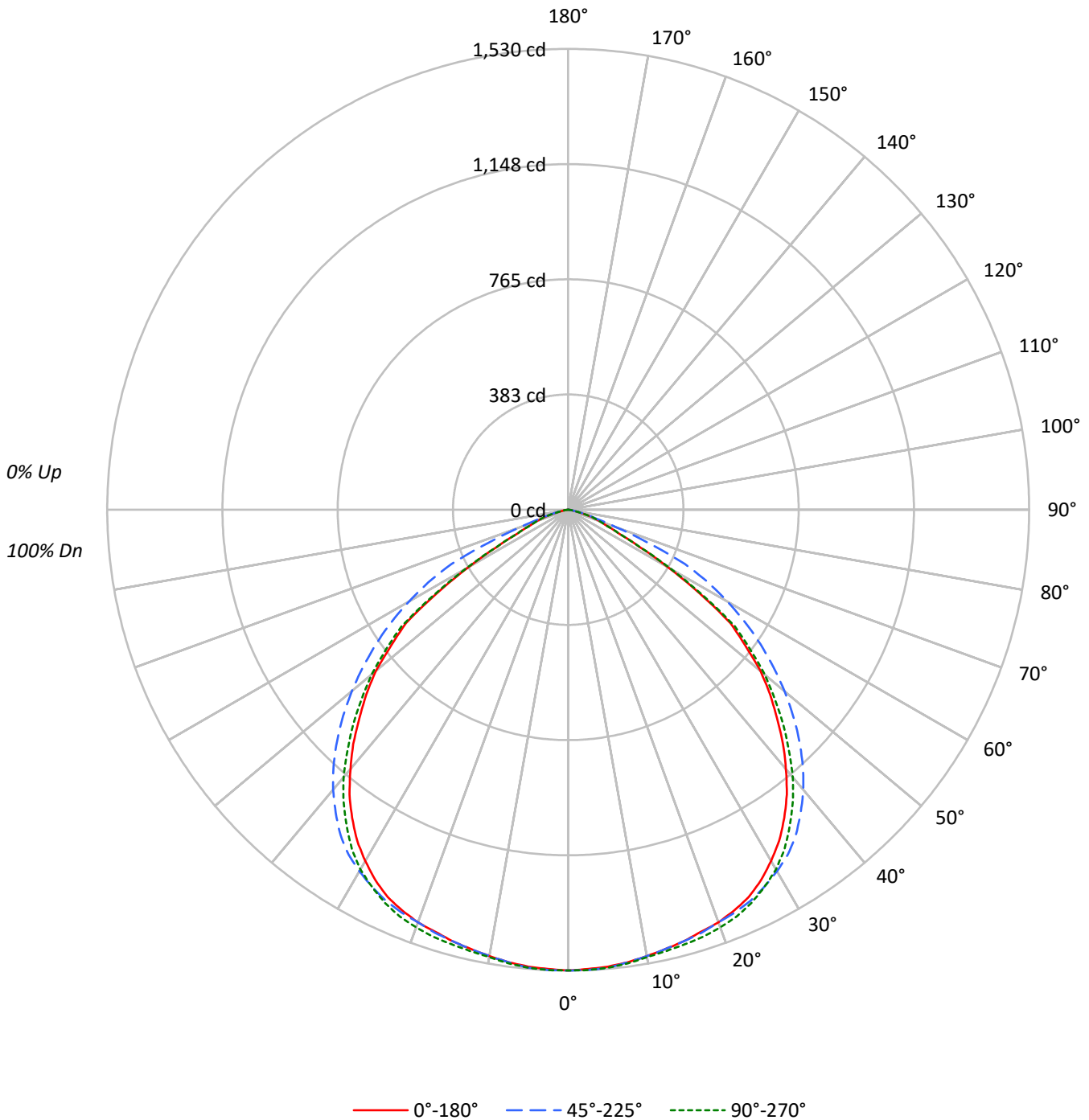
Lumens per Lamp: N/A
Luminaire Lumens: 3815.4 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	65867	65867	65867
5°	65807	65963	65963
10°	65785	65785	65943
15°	66108	66108	66590
20°	66804	66804	67624
25°	67388	68068	68410
30°	66953	68917	68559
35°	65686	69270	67384
40°	63175	68222	65192
45°	59696	66035	61444
50°	55803	62783	57009
55°	49333	58498	50677
60°	33084	52571	34014
65°	18654	43533	18654
70°	14011	21250	13558
75°	8368	9565	8966
80°	3570	4463	3570
85°	1778	1778	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.8
10°-20°	420.3	11.0
20°-30°	658.6	17.3
30°-40°	804.6	21.1
40°-50°	799.9	21.0
50°-60°	631.6	16.6
60°-70°	282.7	7.4
70°-80°	65.9	1.7
80°-90°	6.9	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°	1223.9	32.1
0°-40°	2028.5	53.2
0°-60°	3460.0	90.7
0°-90°	3815.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1523	1523	1526	1526	1526	145
15°	1483	1480	1483	1487	1494	419
25°	1418	1422	1433	1436	1440	652
35°	1250	1275	1318	1300	1282	780
45°	980	1027	1084	1052	1009	756
55°	657	707	779	722	675	562
65°	183	241	427	244	183	205
75°	50	61	58	61	54	57
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°	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1526.2	1529.8	1529.8	1529.8	1529.8
5°	1522.6	1522.6	1526.2	1526.2	1526.2
7.5°	1515.4	1515.4	1515.4	1519.0	1519.0
10°	1504.7	1504.7	1504.7	1508.3	1508.3
12.5°	1493.9	1493.9	1493.9	1497.5	1501.1
15°	1483.1	1479.5	1483.1	1486.7	1493.9
17.5°	1468.8	1472.3	1472.3	1479.5	1486.7
20°	1458.0	1458.0	1458.0	1468.8	1475.9
22.5°	1440.0	1440.0	1447.2	1454.4	1461.6
25°	1418.5	1422.1	1432.8	1436.4	1440.0
27.5°	1386.2	1396.9	1411.3	1414.9	1411.3
30°	1346.7	1361.0	1386.2	1382.6	1379.0
32.5°	1303.6	1321.5	1357.4	1346.7	1335.9
35°	1249.7	1274.8	1317.9	1300.0	1282.0
37.5°	1192.2	1224.6	1267.7	1249.7	1224.6
40°	1124.0	1163.5	1213.8	1188.6	1159.9
42.5°	1055.8	1098.9	1152.7	1120.4	1084.5
45°	980.4	1027.0	1084.5	1052.2	1009.1
47.5°	908.5	955.2	1012.7	973.2	930.1
50°	833.1	876.2	937.3	894.2	851.1
52.5°	739.8	797.2	858.3	811.6	761.3
55°	657.2	707.4	779.3	721.8	675.1
57.5°	517.1	617.7	696.7	628.4	531.5
60°	384.2	481.2	610.5	495.6	395.0
62.5°	265.7	355.5	524.3	359.1	269.3
65°	183.1	240.6	427.3	244.2	183.1
67.5°	136.5	161.6	287.3	161.6	136.5
70°	111.3	118.5	168.8	118.5	107.7
72.5°	82.6	93.4	93.4	93.4	86.2
75°	50.3	61.0	57.5	61.0	53.9
77.5°	21.5	28.7	35.9	32.3	21.5
80°	14.4	14.4	18.0	14.4	14.4
82.5°	10.8	10.8	10.8	10.8	10.8
85°	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)