

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: P253102

Luminaire Tested: **PRS640D010-S6M24-61SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SWDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

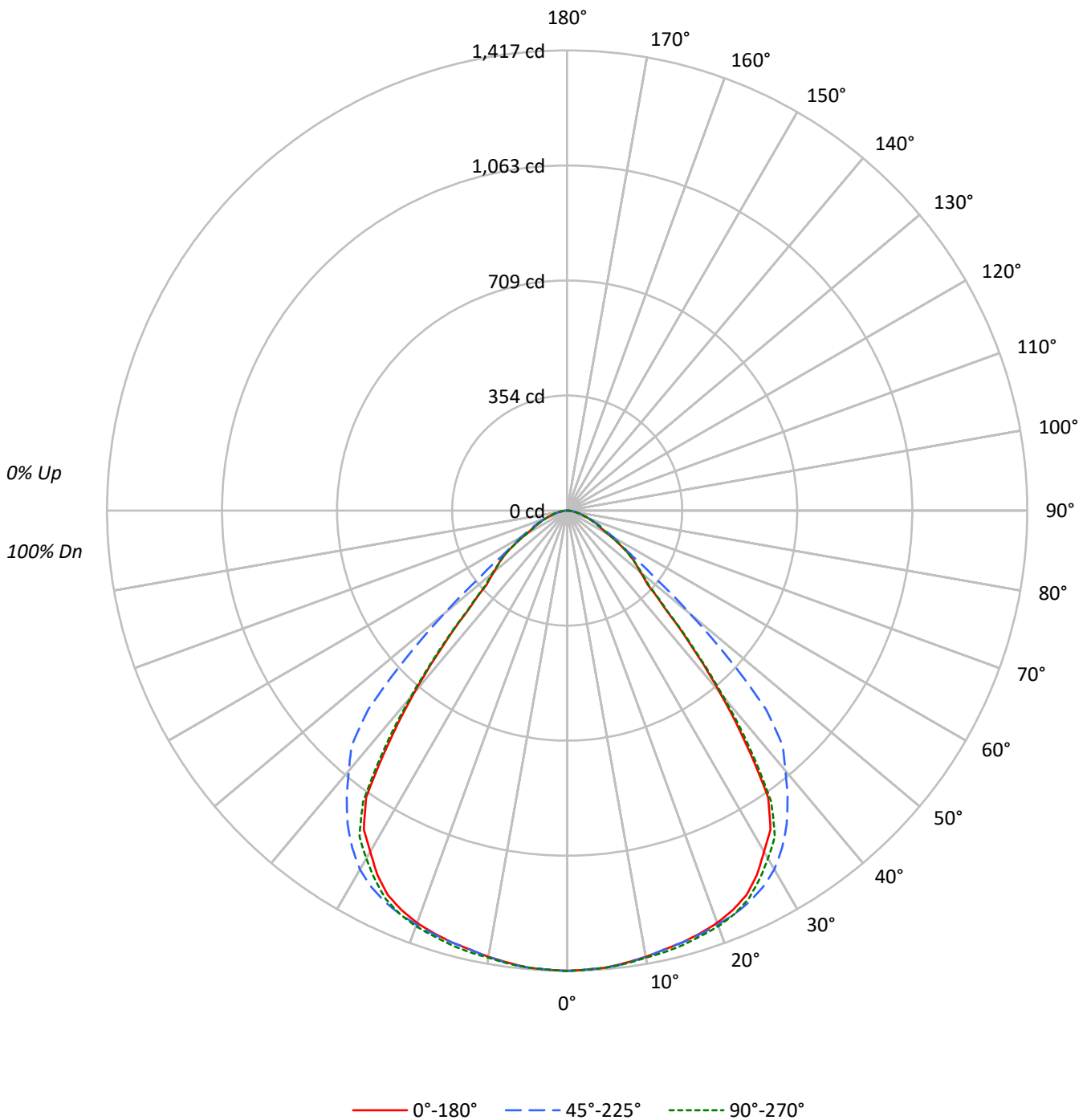
Lumens per Lamp: N/A
Luminaire Lumens: 2679.5 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66		74	69	65		72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48		58	52	48		57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37		46	41	37		46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61027	61027	61027
5°	61022	61022	61022
10°	60998	60998	61120
15°	61326	61326	61700
20°	61897	62149	62405
25°	62067	63122	62728
30°	60266	63438	61504
35°	56714	61964	57591
40°	41159	58774	42092
45°	25842	52694	26347
50°	19693	33069	20068
55°	17280	18534	17280
60°	12658	14096	12658
65°	10453	11308	10453
70°	8724	9076	8724
75°	7386	7386	7386
80°	6199	6199	6199
85°	5483	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	5.0
10°-20°	389.9	14.6
20°-30°	606.8	22.6
30°-40°	693.4	25.9
40°-50°	463.9	17.3
50°-60°	222.0	8.3
60°-70°	108.2	4.0
70°-80°	48.7	1.8
80°-90°	12.4	0.5
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°	1130.9	42.2
0°-40°	1824.3	68.1
0°-60°	2510.2	93.7
0°-90°	2679.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1412	1412	1412	1412	1412	134
15°	1376	1376	1376	1381	1384	389
25°	1306	1315	1329	1326	1320	598
35°	1079	1140	1179	1157	1096	641
45°	424	546	865	555	433	352
55°	230	247	247	250	230	201
65°	103	105	111	105	103	103
75°	44	44	44	44	44	48
85°	11	11	11	11	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.4	1417.4	1417.4	1417.4	1417.4
2.5°	1414.7	1414.7	1414.7	1414.7	1414.7
5°	1411.9	1411.9	1411.9	1411.9	1411.9
7.5°	1403.6	1403.6	1406.3	1403.6	1406.3
10°	1395.2	1395.2	1395.2	1398.0	1398.0
12.5°	1384.2	1384.2	1384.2	1389.7	1392.5
15°	1375.8	1375.8	1375.8	1381.4	1384.2
17.5°	1364.7	1364.7	1367.5	1373.1	1373.1
20°	1350.9	1353.6	1356.4	1362.0	1362.0
22.5°	1331.5	1337.0	1345.3	1348.1	1345.3
25°	1306.5	1314.8	1328.7	1325.9	1320.4
27.5°	1264.9	1284.3	1306.5	1295.4	1281.5
30°	1212.2	1242.7	1276.0	1253.8	1237.1
32.5°	1165.0	1190.0	1231.6	1206.6	1190.0
35°	1079.0	1140.1	1178.9	1156.7	1095.7
37.5°	904.3	1040.2	1115.1	1056.8	926.5
40°	732.3	876.5	1045.7	887.6	748.9
42.5°	568.6	707.3	981.9	718.4	579.7
45°	424.4	546.4	865.4	554.8	432.7
47.5°	335.6	405.0	674.0	413.3	341.2
50°	294.0	321.8	493.7	327.3	299.6
52.5°	263.5	280.2	344.0	282.9	263.5
55°	230.2	246.9	246.9	249.6	230.2
57.5°	185.8	210.8	194.2	210.8	188.6
60°	147.0	166.4	163.7	166.4	147.0
62.5°	119.3	130.4	133.1	130.4	119.3
65°	102.6	105.4	111.0	105.4	102.6
67.5°	86.0	88.8	88.8	88.8	83.2
70°	69.3	72.1	72.1	72.1	69.3
72.5°	55.5	58.3	58.3	58.3	55.5
75°	44.4	44.4	44.4	44.4	44.4
77.5°	33.3	36.1	33.3	36.1	33.3
80°	25.0	25.0	25.0	25.0	25.0
82.5°	16.6	16.6	16.6	16.6	16.6
85°	11.1	11.1	11.1	11.1	11.1
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)