

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: P253107

Luminaire Tested: **PRS640D010-S6M24-61SWDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253107
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.3 lumens
Efficiency: N/A
Efficacy: 67.2 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

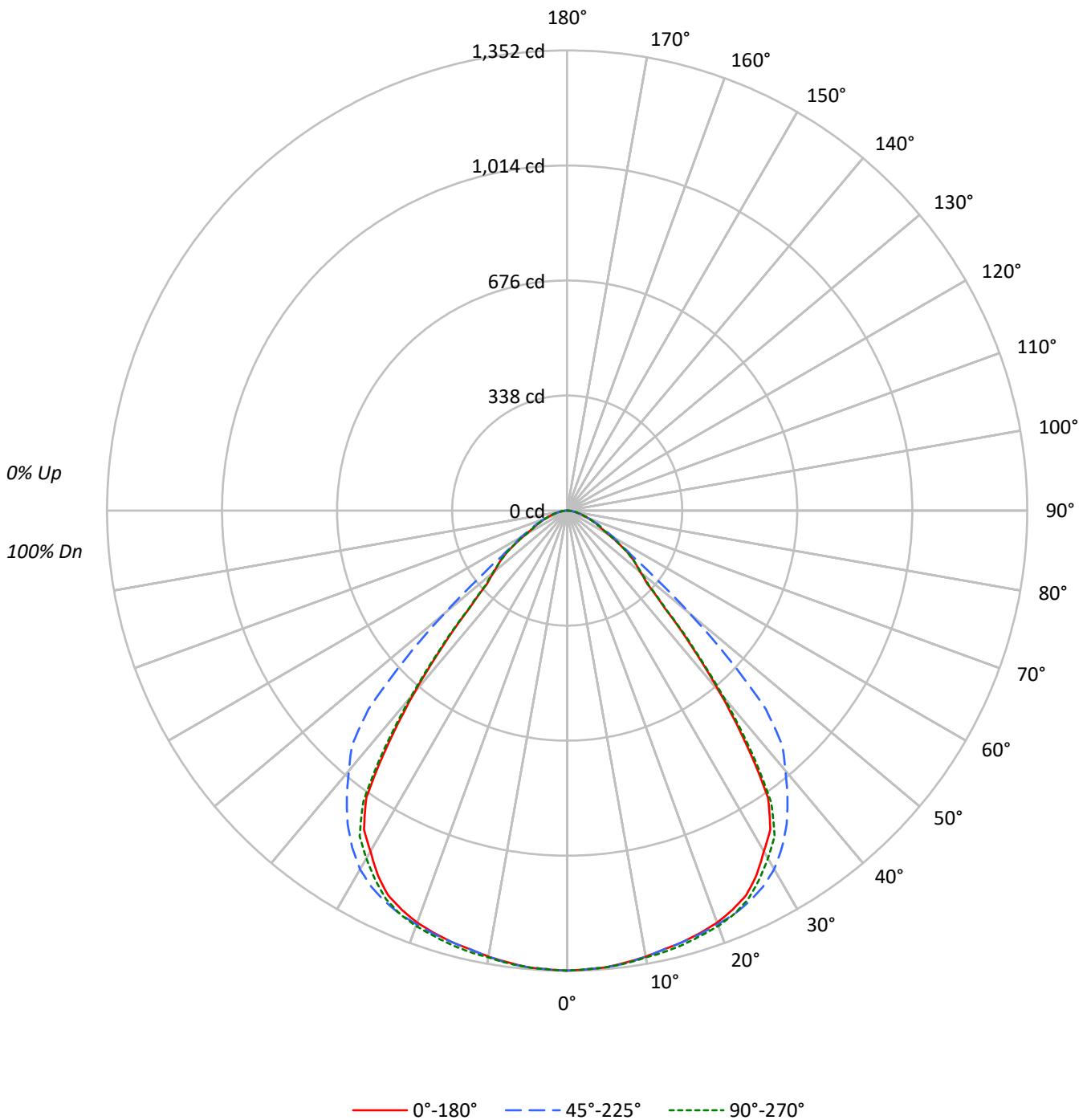
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58198	58198	58198
5°	58192	58192	58192
10°	58174	58174	58287
15°	58486	58486	58838
20°	59028	59267	59510
25°	59189	60196	59820
30°	57472	60495	58655
35°	54086	59089	54921
40°	39254	56053	40142
45°	24642	50252	25129
50°	18782	31542	19137
55°	16484	17670	16484
60°	12073	13442	12073
65°	9974	10779	9974
70°	8321	8661	8321
75°	7037	7037	7037
80°	5901	5901	5901
85°	5236	5236	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	5.0
10°-20°	371.9	14.6
20°-30°	578.6	22.6
30°-40°	661.2	25.9
40°-50°	442.4	17.3
50°-60°	211.7	8.3
60°-70°	103.2	4.0
70°-80°	46.4	1.8
80°-90°	11.9	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°	1078.5	42.2
0°-40°	1739.8	68.1
0°-60°	2393.8	93.7
0°-90°	2555.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1346	1346	1346	1346	1346	128
15°	1312	1312	1312	1317	1320	371
25°	1246	1254	1267	1264	1259	570
35°	1029	1087	1124	1103	1045	611
45°	405	521	825	529	413	336
55°	220	235	235	238	220	191
65°	98	100	106	100	98	98
75°	42	42	42	42	42	45
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°	1351.7	1351.7	1351.7	1351.7	1351.7
2.5°	1349.1	1349.1	1349.1	1349.1	1349.1
5°	1346.4	1346.4	1346.4	1346.4	1346.4
7.5°	1338.5	1338.5	1341.2	1338.5	1341.2
10°	1330.6	1330.6	1330.6	1333.2	1333.2
12.5°	1320.0	1320.0	1320.0	1325.3	1327.9
15°	1312.1	1312.1	1312.1	1317.3	1320.0
17.5°	1301.5	1301.5	1304.1	1309.4	1309.4
20°	1288.3	1290.9	1293.5	1298.8	1298.8
22.5°	1269.7	1275.0	1283.0	1285.6	1283.0
25°	1245.9	1253.9	1267.1	1264.4	1259.2
27.5°	1206.2	1224.8	1245.9	1235.3	1222.1
30°	1156.0	1185.1	1216.8	1195.7	1179.8
32.5°	1111.0	1134.8	1174.5	1150.7	1134.8
35°	1029.0	1087.2	1124.2	1103.1	1044.9
37.5°	862.4	992.0	1063.4	1007.9	883.5
40°	698.4	835.9	997.3	846.5	714.2
42.5°	542.3	674.5	936.4	685.1	552.9
45°	404.7	521.1	825.3	529.1	412.7
47.5°	320.1	386.2	642.8	394.1	325.4
50°	280.4	306.9	470.9	312.1	285.7
52.5°	251.3	267.2	328.0	269.8	251.3
55°	219.6	235.4	235.4	238.1	219.6
57.5°	177.2	201.0	185.2	201.0	179.9
60°	140.2	158.7	156.1	158.7	140.2
62.5°	113.7	124.3	127.0	124.3	113.7
65°	97.9	100.5	105.8	100.5	97.9
67.5°	82.0	84.6	84.6	84.6	79.4
70°	66.1	68.8	68.8	68.8	66.1
72.5°	52.9	55.6	55.6	55.6	52.9
75°	42.3	42.3	42.3	42.3	42.3
77.5°	31.7	34.4	31.7	34.4	31.7
80°	23.8	23.8	23.8	23.8	23.8
82.5°	15.9	15.9	15.9	15.9	15.9
85°	10.6	10.6	10.6	10.6	10.6
87.5°	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)