

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: P238192

Luminaire Tested: **PRS640D010-S6M24-61SMDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3807.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

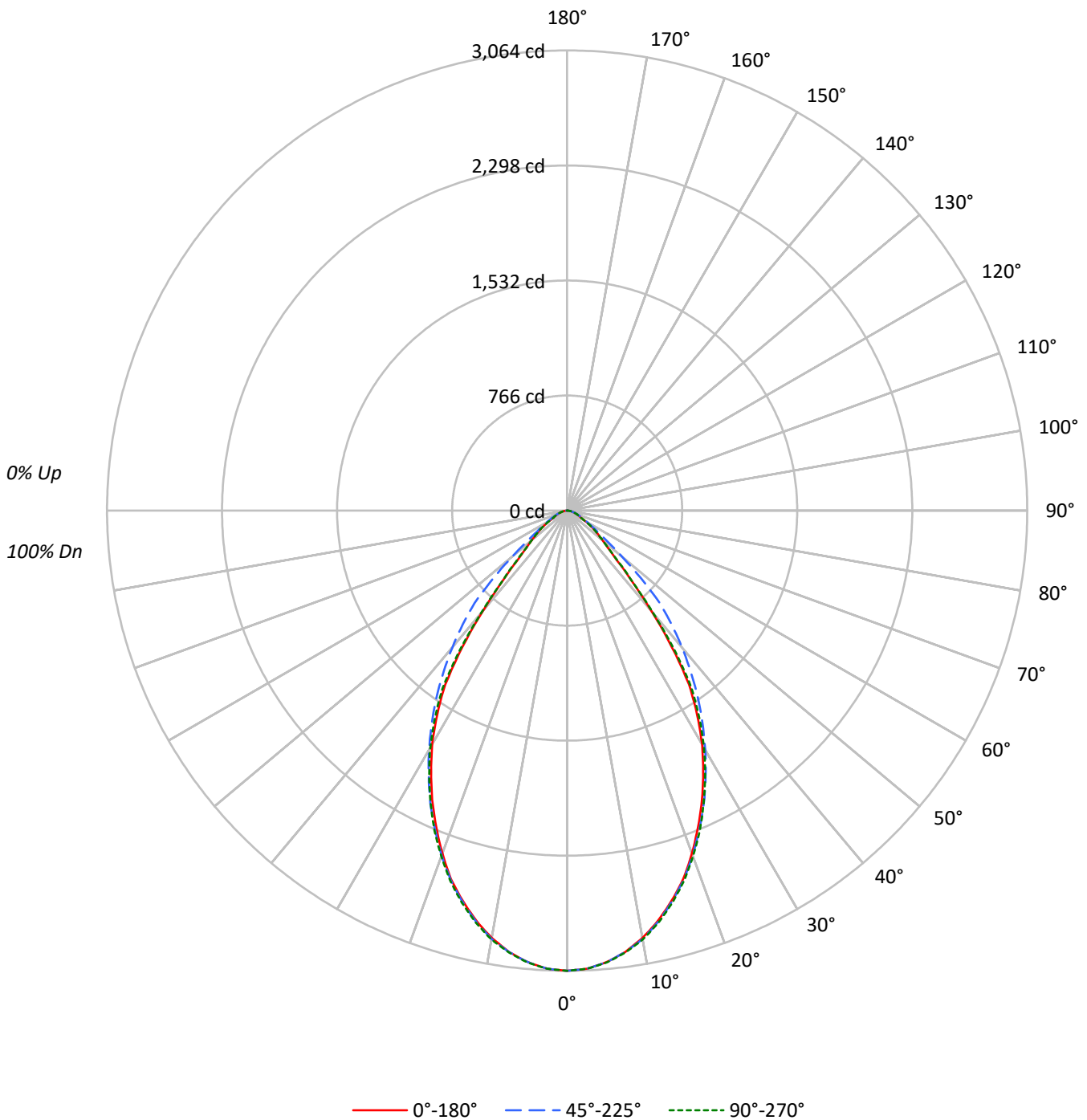
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61					61			
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	131940	131940	131940
5°	130438	130438	130590
10°	126324	126635	126792
15°	119879	120195	120516
20°	111280	111931	112261
25°	100956	102310	102144
30°	89316	91448	90558
35°	74337	79783	76030
40°	48983	66845	49983
45°	28703	53066	29574
50°	20577	31576	20577
55°	16086	18766	16357
60°	11685	13528	11685
65°	9465	10555	9465
70°	8094	8548	8548
75°	7137	7137	7137
80°	6199	6199	6199
85°	5286	5286	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	7.5
10°-20°	754.9	19.8
20°-30°	981.9	25.8
30°-40°	906.6	23.8
40°-50°	502.0	13.2
50°-60°	217.2	5.7
60°-70°	99.8	2.6
70°-80°	48.1	1.3
80°-90°	12.9	0.3
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°	2021.1	53.1
0°-40°	2927.7	76.9
0°-60°	3646.8	95.8
0°-90°	3807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3807.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3064	3064	3064	3064	3064	
5°	3018	3022	3018	3022	3022	284
15°	2689	2693	2696	2704	2704	753
25°	2125	2132	2154	2157	2150	972
35°	1414	1468	1518	1486	1446	853
45°	471	579	872	593	486	394
55°	214	239	250	239	218	192
65°	93	96	104	96	93	93
75°	43	46	43	46	43	46
85°	11	11	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3053.7	3053.7	3053.7	3053.7	3053.7
5°	3018.0	3021.5	3018.0	3021.5	3021.5
7.5°	2964.4	2968.0	2964.4	2968.0	2968.0
10°	2889.4	2889.4	2896.5	2896.5	2900.1
12.5°	2796.5	2800.1	2803.7	2807.2	2810.8
15°	2689.4	2693.0	2696.5	2703.7	2703.7
17.5°	2571.5	2567.9	2578.7	2578.7	2585.8
20°	2428.7	2435.8	2442.9	2446.5	2450.1
22.5°	2278.7	2285.8	2300.1	2303.7	2307.2
25°	2125.1	2132.2	2153.6	2157.2	2150.1
27.5°	1960.8	1978.6	1996.5	1992.9	1989.4
30°	1796.5	1807.2	1839.4	1828.6	1821.5
32.5°	1610.8	1646.5	1675.1	1660.8	1639.3
35°	1414.3	1467.9	1517.9	1485.8	1446.5
37.5°	1146.5	1285.8	1350.0	1300.0	1182.2
40°	871.5	1035.8	1189.3	1053.6	889.3
42.5°	635.7	785.7	1028.6	803.6	646.5
45°	471.4	578.6	871.5	592.9	485.7
47.5°	367.9	442.9	664.3	442.9	371.4
50°	307.2	346.4	471.4	350.0	307.2
52.5°	257.2	285.7	335.7	285.7	257.2
55°	214.3	239.3	250.0	239.3	217.9
57.5°	171.4	196.4	192.9	196.4	175.0
60°	135.7	153.6	157.1	153.6	135.7
62.5°	103.6	117.9	128.6	117.9	103.6
65°	92.9	96.4	103.6	96.4	92.9
67.5°	78.6	82.1	82.1	82.1	78.6
70°	64.3	67.9	67.9	67.9	67.9
72.5°	53.6	57.1	57.1	57.1	53.6
75°	42.9	46.4	42.9	46.4	42.9
77.5°	32.1	35.7	35.7	35.7	35.7
80°	25.0	25.0	25.0	25.0	25.0
82.5°	17.9	17.9	17.9	17.9	17.9
85°	10.7	10.7	10.7	10.7	10.7
87.5°	7.1	7.1	3.6	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)