

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: P238227

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4299.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

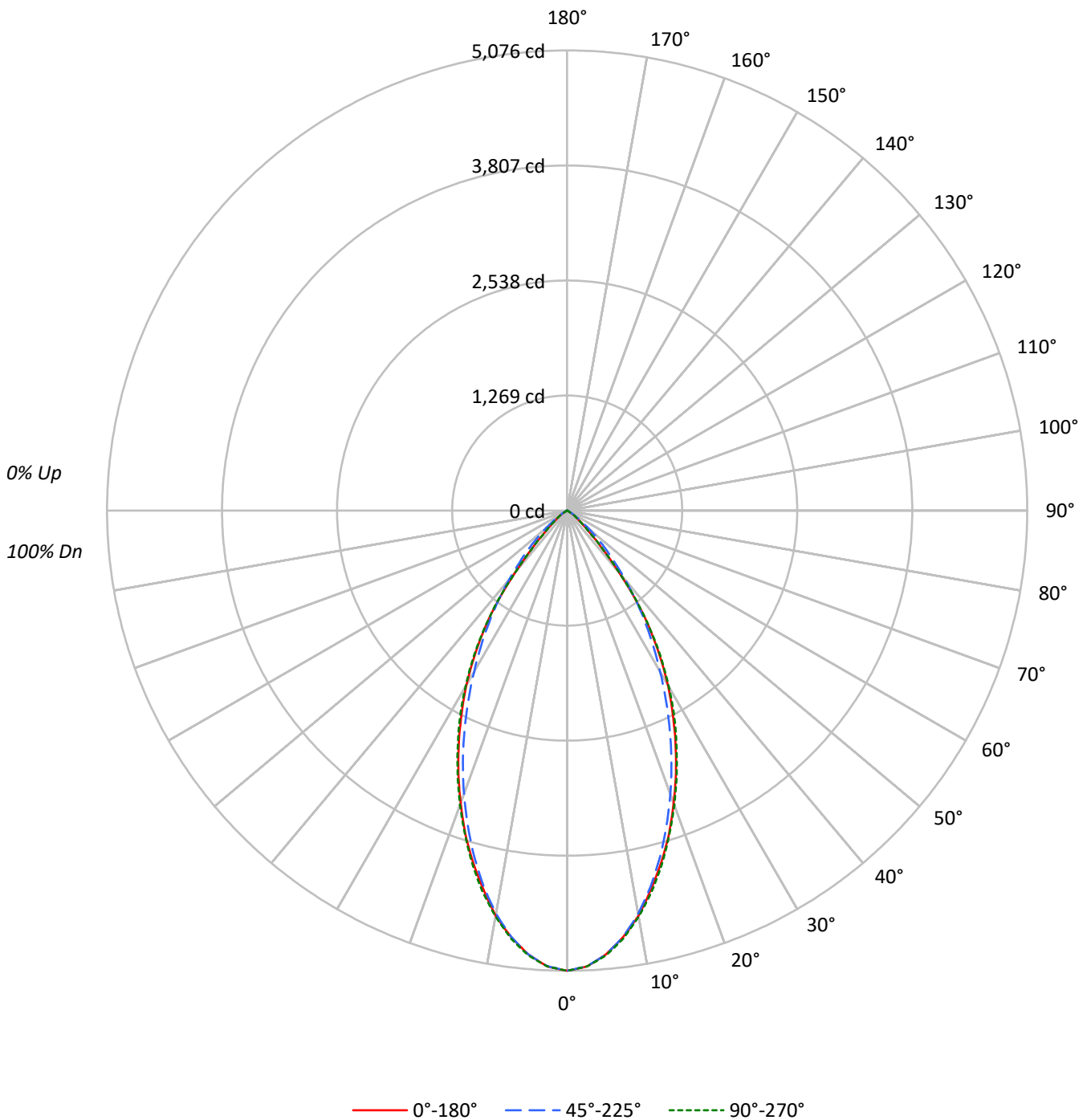
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	218563	218563	218563
5°	212384	212384	212894
10°	198392	197351	198737
15°	178971	176323	180032
20°	157296	152398	158387
25°	134311	127351	135627
30°	110634	101973	111424
35°	83457	78674	83877
40°	50073	56082	50073
45°	23625	36650	23625
50°	12198	20952	11936
55°	6838	9218	6838
60°	2730	4090	2730
65°	805	1610	805
70°	504	504	504
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	10.6
10°-20°	1110.8	25.8
20°-30°	1260.0	29.3
30°-40°	952.8	22.2
40°-50°	400.1	9.3
50°-60°	103.7	2.4
60°-70°	13.3	0.3
70°-80°	1.6	0.0
80°-90°	0.0	0.0
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°	2827.8	65.8
0°-40°	3780.6	87.9
0°-60°	4284.4	99.7
0°-90°	4299.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4299.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5076	5076	5076	5076	5076	
5°	4914	4918	4914	4922	4926	457
15°	4015	3987	3956	3995	4039	1119
25°	2827	2748	2681	2764	2855	1292
35°	1588	1520	1497	1532	1596	972
45°	388	475	602	475	388	336
55°	91	107	123	107	91	86
65°	8	4	16	4	8	9
75°	0	0	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5076.3	5076.3	5076.3	5076.3	5076.3
2.5°	5032.8	5028.8	5028.8	5032.8	5032.8
5°	4914.0	4917.9	4914.0	4921.9	4925.8
7.5°	4743.7	4743.7	4739.7	4747.7	4759.5
10°	4537.8	4522.0	4514.0	4529.9	4545.7
12.5°	4276.5	4264.6	4248.7	4276.5	4308.1
15°	4015.1	3987.4	3955.7	3995.3	4038.9
17.5°	3737.9	3682.5	3646.9	3698.3	3745.9
20°	3433.0	3377.6	3326.1	3381.6	3456.8
22.5°	3136.1	3056.9	3005.4	3068.8	3155.9
25°	2827.2	2748.0	2680.7	2763.9	2854.9
27.5°	2518.4	2435.2	2360.0	2451.0	2558.0
30°	2225.3	2122.4	2051.1	2146.1	2241.2
32.5°	1900.6	1805.6	1766.0	1833.3	1932.3
35°	1587.8	1520.5	1496.8	1532.4	1595.8
37.5°	1247.3	1231.5	1239.4	1255.2	1267.1
40°	890.9	966.2	997.8	970.1	890.9
42.5°	594.0	696.9	780.1	696.9	601.9
45°	388.0	475.2	601.9	475.2	388.0
47.5°	253.4	320.7	447.4	316.8	253.4
50°	182.1	213.8	312.8	213.8	178.2
52.5°	130.7	150.5	201.9	150.5	130.7
55°	91.1	106.9	122.8	106.9	91.1
57.5°	59.4	71.3	71.3	71.3	59.4
60°	31.7	43.6	47.5	43.6	31.7
62.5°	7.9	19.8	27.7	19.8	7.9
65°	7.9	4.0	15.8	4.0	7.9
67.5°	4.0	4.0	7.9	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)