

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: P253100

Luminaire Tested: **PRS620D010-S6M12-61SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253100
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: PRS620D010-S6M12-61SWDMB
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: 1469.2 lumens
Efficiency: N/A
Efficacy: 73.5 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

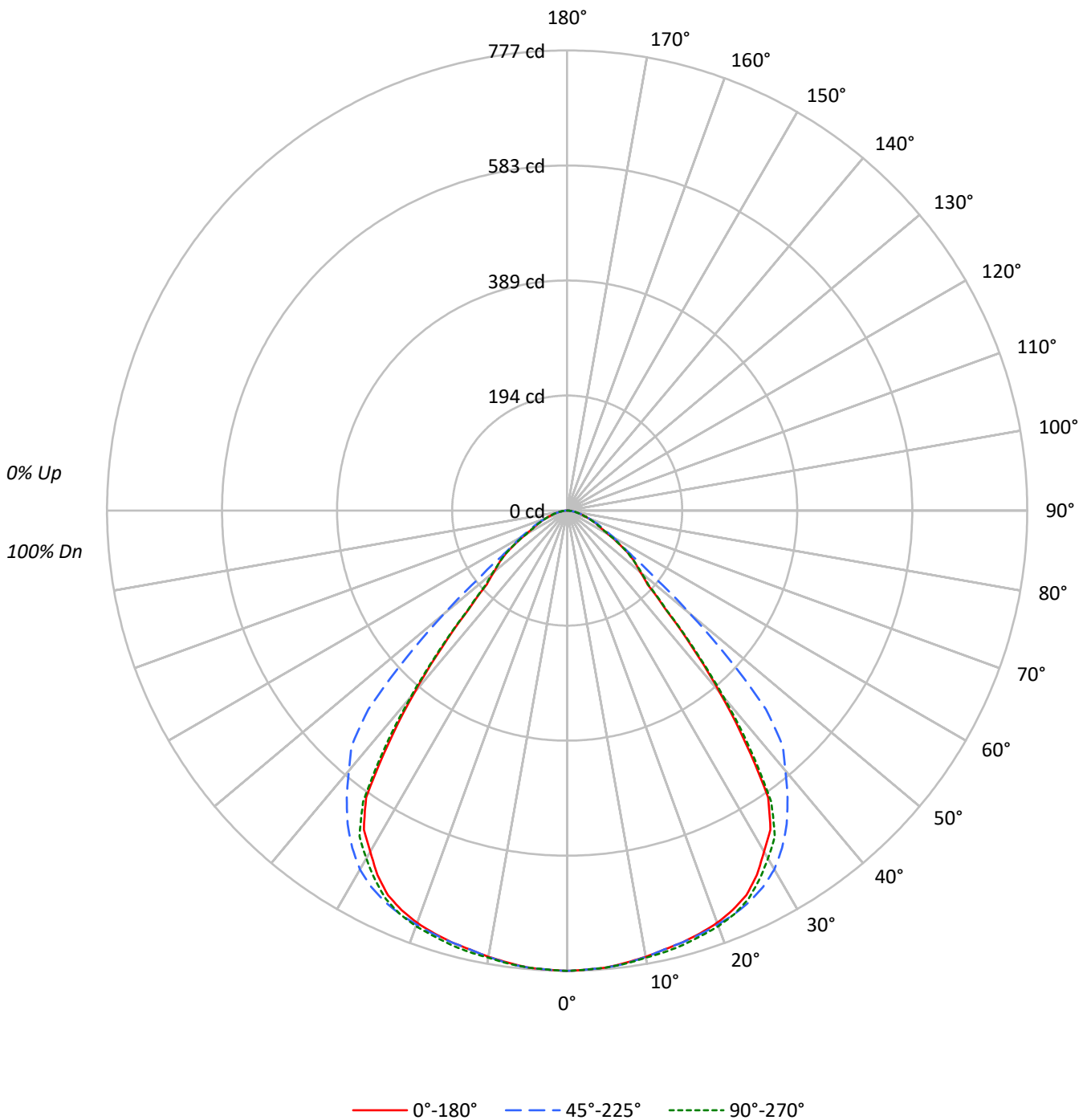
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33463	33463	33463
5°	33461	33461	33461
10°	33450	33450	33516
15°	33627	33627	33832
20°	33938	34080	34218
25°	34034	34613	34395
30°	33046	34787	33728
35°	31100	33976	31579
40°	22566	32228	23083
45°	14169	28892	14449
50°	10798	18132	11005
55°	9473	10164	9473
60°	6941	7724	6941
65°	5736	6194	5736
70°	4784	4973	4784
75°	4042	4042	4042
80°	3397	3397	3397
85°	3013	3013	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	5.0
10°-20°	213.8	14.6
20°-30°	332.7	22.6
30°-40°	380.2	25.9
40°-50°	254.3	17.3
50°-60°	121.7	8.3
60°-70°	59.3	4.0
70°-80°	26.7	1.8
80°-90°	6.8	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°	620.1	42.2
0°-40°	1000.3	68.1
0°-60°	1376.4	93.7
0°-90°	1469.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	774	774	774	774	774	74
15°	754	754	754	758	759	213
25°	716	721	729	727	724	328
35°	592	625	646	634	601	352
45°	233	300	474	304	237	193
55°	126	135	135	137	126	110
65°	56	58	61	58	56	56
75°	24	24	24	24	24	26
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.2	777.2	777.2	777.2	777.2
2.5°	775.7	775.7	775.7	775.7	775.7
5°	774.2	774.2	774.2	774.2	774.2
7.5°	769.6	769.6	771.1	769.6	771.1
10°	765.1	765.1	765.1	766.6	766.6
12.5°	759.0	759.0	759.0	762.0	763.5
15°	754.4	754.4	754.4	757.5	759.0
17.5°	748.3	748.3	749.8	752.9	752.9
20°	740.7	742.2	743.8	746.8	746.8
22.5°	730.1	733.1	737.7	739.2	737.7
25°	716.4	720.9	728.6	727.0	724.0
27.5°	693.6	704.2	716.4	710.3	702.7
30°	664.7	681.4	699.7	687.5	678.4
32.5°	638.8	652.5	675.3	661.6	652.5
35°	591.7	625.1	646.4	634.3	600.8
37.5°	495.8	570.4	611.4	579.5	508.0
40°	401.5	480.6	573.4	486.7	410.7
42.5°	311.8	387.9	538.4	393.9	317.9
45°	232.7	299.6	474.5	304.2	237.3
47.5°	184.0	222.1	369.6	226.6	187.1
50°	161.2	176.4	270.7	179.5	164.3
52.5°	144.5	153.6	188.6	155.1	144.5
55°	126.2	135.4	135.4	136.9	126.2
57.5°	101.9	115.6	106.5	115.6	103.4
60°	80.6	91.3	89.7	91.3	80.6
62.5°	65.4	71.5	73.0	71.5	65.4
65°	56.3	57.8	60.8	57.8	56.3
67.5°	47.2	48.7	48.7	48.7	45.6
70°	38.0	39.5	39.5	39.5	38.0
72.5°	30.4	31.9	31.9	31.9	30.4
75°	24.3	24.3	24.3	24.3	24.3
77.5°	18.3	19.8	18.3	19.8	18.3
80°	13.7	13.7	13.7	13.7	13.7
82.5°	9.1	9.1	9.1	9.1	9.1
85°	6.1	6.1	6.1	6.1	6.1
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)