

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: P253105

Luminaire Tested: **PRS620D010-S6M12-61SWDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253105
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-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: 1460.9 lumens
Efficiency: N/A
Efficacy: 73.0 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

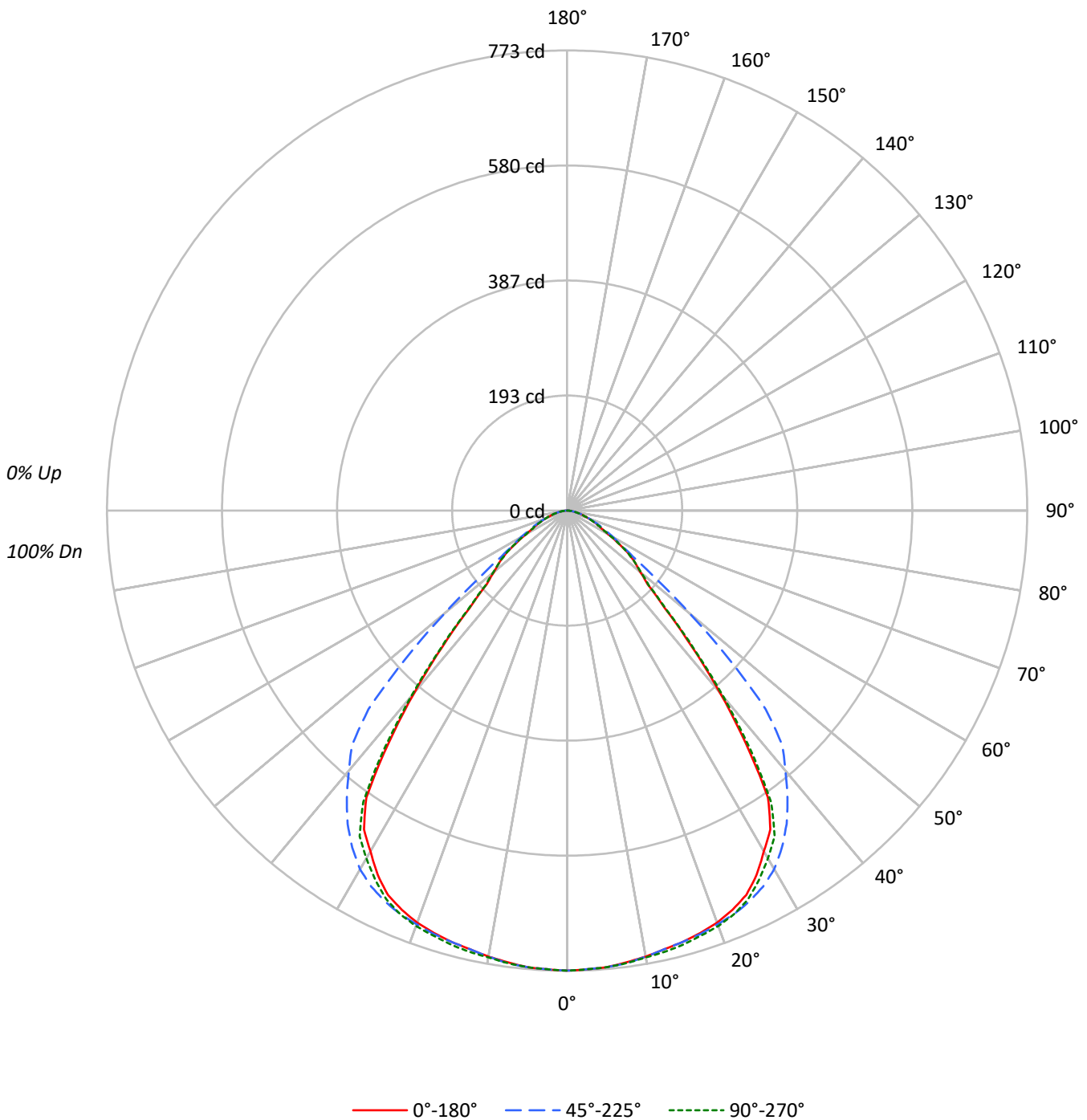
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33273	33273	33273
5°	33271	33271	33271
10°	33258	33258	33323
15°	33435	33435	33640
20°	33746	33883	34025
25°	33839	34414	34200
30°	32858	34588	33534
35°	30922	33781	31400
40°	22443	32043	22949
45°	14090	28728	14364
50°	10737	18032	10938
55°	9421	10104	9421
60°	6906	7681	6906
65°	5705	6164	5705
70°	4759	4947	4759
75°	4026	4026	4026
80°	3372	3372	3372
85°	2964	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	5.0
10°-20°	212.6	14.6
20°-30°	330.8	22.6
30°-40°	378.0	25.9
40°-50°	252.9	17.3
50°-60°	121.0	8.3
60°-70°	59.0	4.0
70°-80°	26.6	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°	616.6	42.2
0°-40°	994.6	68.1
0°-60°	1368.6	93.7
0°-90°	1460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	770	770	770	770	770	73
15°	750	750	750	753	755	212
25°	712	717	724	723	720	326
35°	588	622	643	631	597	350
45°	231	298	472	302	236	192
55°	126	135	135	136	126	109
65°	56	58	60	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°	772.8	772.8	772.8	772.8	772.8
2.5°	771.3	771.3	771.3	771.3	771.3
5°	769.8	769.8	769.8	769.8	769.8
7.5°	765.2	765.2	766.8	765.2	766.8
10°	760.7	760.7	760.7	762.2	762.2
12.5°	754.7	754.7	754.7	757.7	759.2
15°	750.1	750.1	750.1	753.1	754.7
17.5°	744.1	744.1	745.6	748.6	748.6
20°	736.5	738.0	739.5	742.6	742.6
22.5°	725.9	728.9	733.5	735.0	733.5
25°	712.3	716.8	724.4	722.9	719.9
27.5°	689.6	700.2	712.3	706.3	698.7
30°	660.9	677.5	695.7	683.6	674.5
32.5°	635.2	648.8	671.5	657.9	648.8
35°	588.3	621.6	642.7	630.6	597.4
37.5°	493.0	567.1	608.0	576.2	505.1
40°	399.3	477.9	570.1	483.9	408.3
42.5°	310.0	385.6	535.4	391.7	316.1
45°	231.4	297.9	471.8	302.5	235.9
47.5°	183.0	220.8	367.5	225.3	186.0
50°	160.3	175.4	269.2	178.5	163.3
52.5°	143.7	152.7	187.5	154.3	143.7
55°	125.5	134.6	134.6	136.1	125.5
57.5°	101.3	114.9	105.9	114.9	102.8
60°	80.2	90.7	89.2	90.7	80.2
62.5°	65.0	71.1	72.6	71.1	65.0
65°	56.0	57.5	60.5	57.5	56.0
67.5°	46.9	48.4	48.4	48.4	45.4
70°	37.8	39.3	39.3	39.3	37.8
72.5°	30.2	31.8	31.8	31.8	30.2
75°	24.2	24.2	24.2	24.2	24.2
77.5°	18.1	19.7	18.1	19.7	18.1
80°	13.6	13.6	13.6	13.6	13.6
82.5°	9.1	9.1	9.1	9.1	9.1
85°	6.0	6.0	6.0	6.0	6.0
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)