

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: P253045

Luminaire Tested: **PRS620D010-S6M12-64SWDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SWDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 2080.2 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

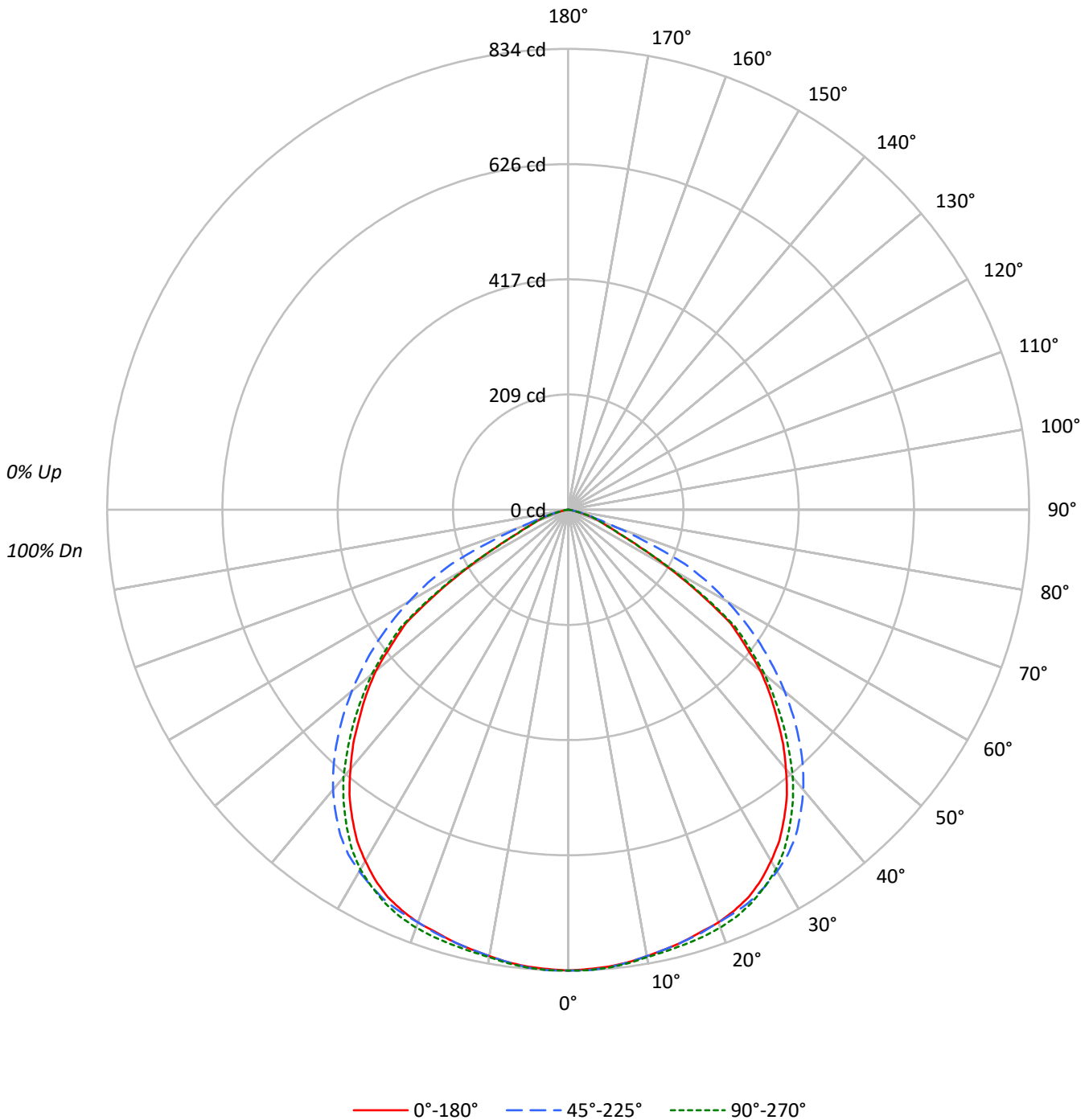
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35913	35913	35913
5°	35877	35963	35963
10°	35868	35868	35951
15°	36043	36043	36306
20°	36421	36421	36870
25°	36742	37112	37297
30°	36502	37571	37377
35°	35810	37765	36740
40°	34443	37197	35544
45°	32546	36004	33502
50°	30424	34228	31080
55°	26896	31895	27632
60°	18040	28658	18548
65°	10178	23738	10178
70°	7641	11582	7390
75°	4558	5207	4891
80°	1934	2430	1934
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.8
10°-20°	229.2	11.0
20°-30°	359.1	17.3
30°-40°	438.7	21.1
40°-50°	436.1	21.0
50°-60°	344.3	16.6
60°-70°	154.1	7.4
70°-80°	35.9	1.7
80°-90°	3.8	0.2
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°	667.3	32.1
0°-40°	1106.0	53.2
0°-60°	1886.4	90.7
0°-90°	2080.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	830	830	832	832	832	79
15°	809	807	809	811	814	229
25°	773	775	781	783	785	355
35°	681	695	718	709	699	425
45°	534	560	591	574	550	412
55°	358	386	425	394	368	306
65°	100	131	233	133	100	112
75°	27	33	31	33	29	31
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.1	834.1	834.1	834.1	834.1
2.5°	832.1	834.1	834.1	834.1	834.1
5°	830.1	830.1	832.1	832.1	832.1
7.5°	826.2	826.2	826.2	828.2	828.2
10°	820.4	820.4	820.4	822.3	822.3
12.5°	814.5	814.5	814.5	816.4	818.4
15°	808.6	806.7	808.6	810.6	814.5
17.5°	800.8	802.7	802.7	806.7	810.6
20°	794.9	794.9	794.9	800.8	804.7
22.5°	785.1	785.1	789.0	792.9	796.9
25°	773.4	775.3	781.2	783.2	785.1
27.5°	755.7	761.6	769.5	771.4	769.5
30°	734.2	742.0	755.7	753.8	751.8
32.5°	710.7	720.5	740.1	734.2	728.3
35°	681.3	695.1	718.5	708.8	699.0
37.5°	650.0	667.6	691.1	681.3	667.6
40°	612.8	634.4	661.8	648.1	632.4
42.5°	575.6	599.1	628.5	610.9	591.3
45°	534.5	560.0	591.3	573.7	550.2
47.5°	495.3	520.8	552.1	530.6	507.1
50°	454.2	477.7	511.0	487.5	464.0
52.5°	403.3	434.7	467.9	442.5	415.1
55°	358.3	385.7	424.9	393.5	368.1
57.5°	281.9	336.8	379.8	342.6	289.8
60°	209.5	262.4	332.8	270.2	215.4
62.5°	144.9	193.8	285.9	195.8	146.8
65°	99.9	131.2	233.0	133.1	99.9
67.5°	74.4	88.1	156.6	88.1	74.4
70°	60.7	64.6	92.0	64.6	58.7
72.5°	45.0	50.9	50.9	50.9	47.0
75°	27.4	33.3	31.3	33.3	29.4
77.5°	11.7	15.7	19.6	17.6	11.7
80°	7.8	7.8	9.8	7.8	7.8
82.5°	5.9	5.9	5.9	5.9	5.9
85°	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)