

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: P238315

Luminaire Tested: **PRS620D010-S6M12-64SNDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

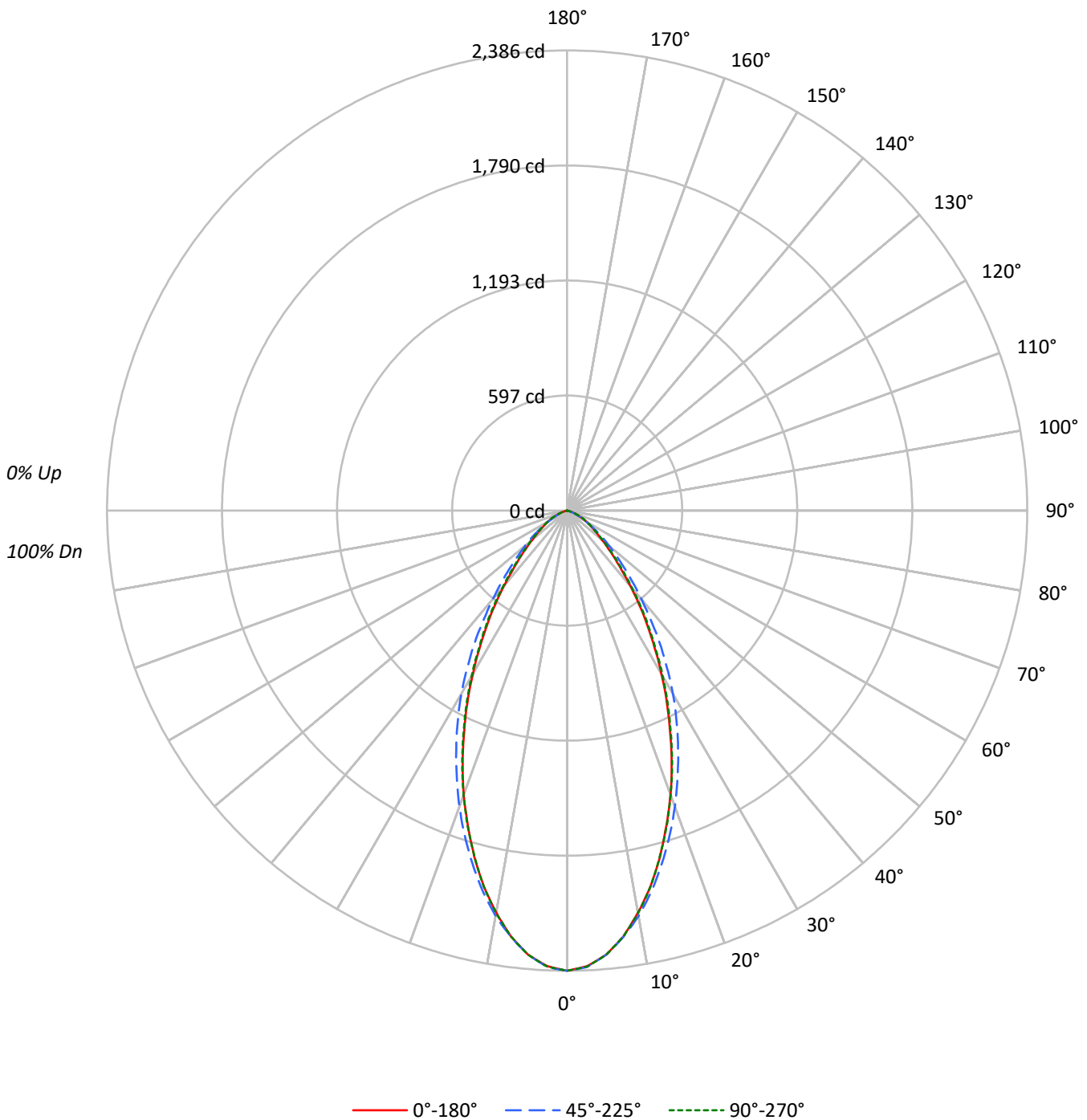
Lumens per Lamp: N/A
Luminaire Lumens: 2366.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75				
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63				
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53				
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50				
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46				
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	102739	102739	102739
5°	99942	99942	99942
10°	92555	93311	92647
15°	82846	84491	82748
20°	71826	74813	71926
25°	60034	64676	60443
30°	48578	54514	49224
35°	38002	43936	38801
40°	28558	33560	29289
45°	21019	25251	21817
50°	15707	18909	16438
55°	12221	13857	12551
60°	9911	9533	10092
65°	7305	6418	7519
70°	4922	4104	4922
75°	2163	1813	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	9.1
10°-20°	523.0	22.1
20°-30°	600.4	25.4
30°-40°	486.1	20.5
40°-50°	297.9	12.6
50°-60°	159.9	6.8
60°-70°	69.1	2.9
70°-80°	14.9	0.6
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°	1338.2	56.6
0°-40°	1824.2	77.1
0°-60°	2282.0	96.4
0°-90°	2366.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2312	2312	2312	2312	2312	214
15°	1859	1876	1896	1878	1856	517
25°	1264	1307	1361	1309	1272	579
35°	723	769	836	777	738	453
45°	345	371	415	376	358	272
55°	163	176	185	178	167	149
65°	72	67	63	67	74	74
75°	13	13	11	13	13	16
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°	2386.2	2386.2	2386.2	2386.2	2386.2
2.5°	2364.5	2366.7	2368.8	2366.7	2366.7
5°	2312.4	2312.4	2312.4	2312.4	2312.4
7.5°	2227.7	2232.0	2229.9	2229.9	2227.7
10°	2117.0	2127.8	2134.3	2127.8	2119.1
12.5°	1995.4	2008.4	2021.4	2006.2	1997.5
15°	1858.6	1876.0	1895.5	1878.1	1856.4
17.5°	1710.9	1739.2	1767.4	1739.2	1715.3
20°	1567.6	1600.2	1632.8	1598.0	1569.8
22.5°	1415.6	1446.0	1496.0	1450.4	1422.2
25°	1263.7	1307.1	1361.4	1309.3	1272.3
27.5°	1118.2	1163.8	1228.9	1172.5	1129.0
30°	977.1	1027.0	1096.5	1035.7	990.1
32.5°	844.6	894.6	961.9	903.2	857.6
35°	723.0	768.6	835.9	777.3	738.2
37.5°	612.3	649.2	707.8	657.9	627.5
40°	508.1	542.8	597.1	549.3	521.1
42.5°	416.9	449.4	501.6	458.1	434.2
45°	345.2	371.3	414.7	375.6	358.3
47.5°	284.4	308.3	343.1	310.5	295.3
50°	234.5	254.0	282.3	258.4	245.4
52.5°	195.4	212.8	234.5	215.0	201.9
55°	162.8	175.9	184.6	178.0	167.2
57.5°	136.8	141.1	143.3	143.3	141.1
60°	115.1	110.7	110.7	112.9	117.2
62.5°	95.5	86.8	84.7	89.0	97.7
65°	71.7	67.3	63.0	67.3	73.8
67.5°	54.3	47.8	45.6	49.9	56.5
70°	39.1	34.7	32.6	34.7	39.1
72.5°	23.9	23.9	19.5	23.9	23.9
75°	13.0	13.0	10.9	13.0	13.0
77.5°	4.3	4.3	2.2	4.3	6.5
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)