

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: P238311

Luminaire Tested: **PRS630D010-S6M24-64SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238311
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: PRS630D010-S6M24-64SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.2 lumens
Efficiency: N/A
Efficacy: 106.6 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

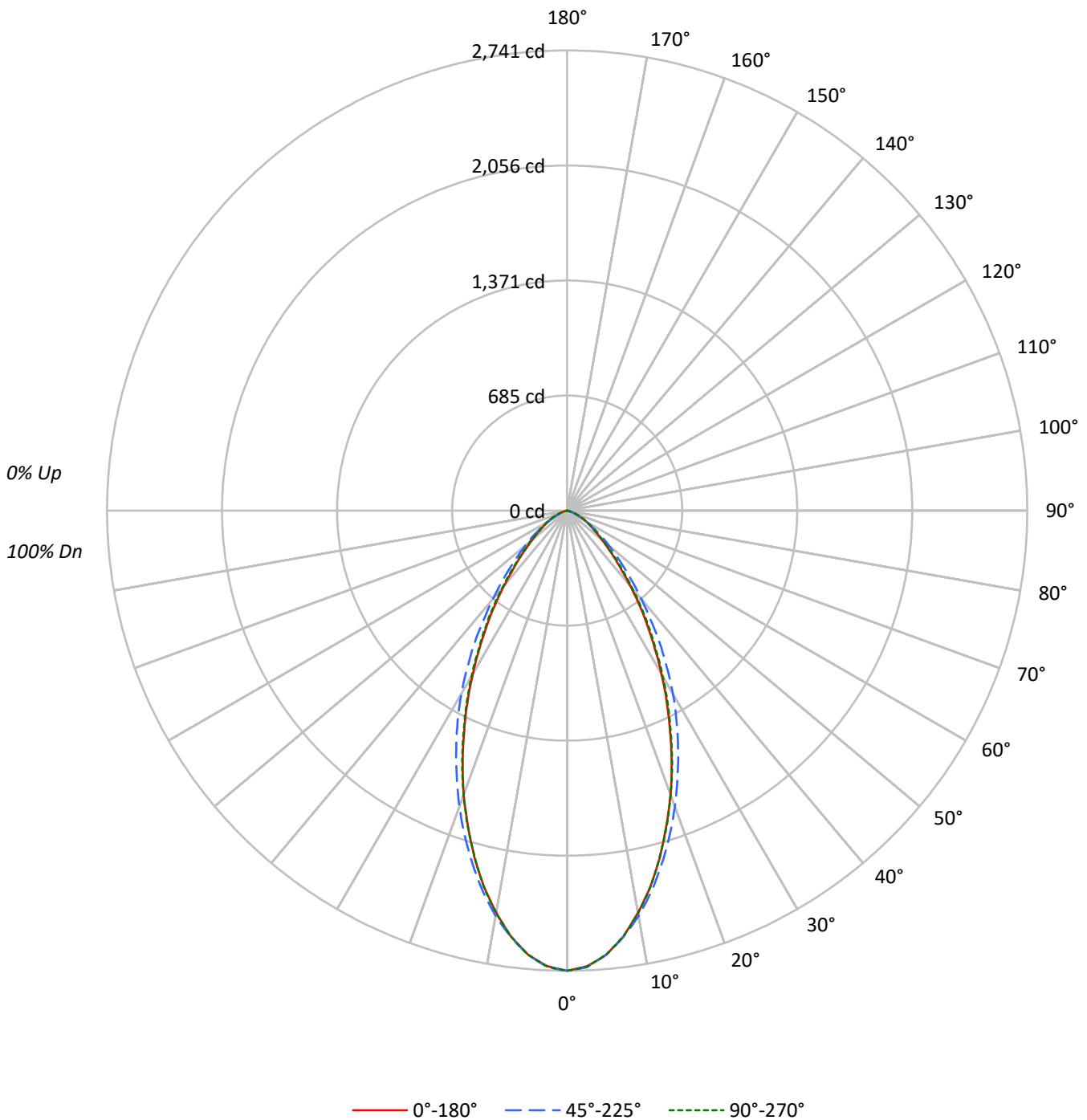
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	118028	118028	118028
5°	114814	114814	114814
10°	106327	107201	106436
15°	95175	97065	95064
20°	82515	85947	82630
25°	68965	74300	69440
30°	55807	62628	56547
35°	43657	50475	44577
40°	32807	38551	33644
45°	24149	29008	25062
50°	18045	21722	18882
55°	14045	15914	14420
60°	11384	10953	11599
65°	8385	7366	8639
70°	5652	4708	5652
75°	2495	2079	2495
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	9.1
10°-20°	600.8	22.1
20°-30°	689.7	25.4
30°-40°	558.4	20.5
40°-50°	342.3	12.6
50°-60°	183.7	6.8
60°-70°	79.4	2.9
70°-80°	17.2	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°	1537.3	56.6
0°-40°	2095.7	77.1
0°-60°	2621.6	96.4
0°-90°	2718.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2656	2656	2656	2656	2656	246
15°	2135	2155	2178	2158	2133	594
25°	1452	1502	1564	1504	1462	665
35°	831	883	960	893	848	521
45°	397	426	476	432	412	312
55°	187	202	212	204	192	171
65°	82	77	72	77	85	85
75°	15	15	12	15	15	18
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°	2741.3	2741.3	2741.3	2741.3	2741.3
2.5°	2716.4	2718.9	2721.4	2718.9	2718.9
5°	2656.5	2656.5	2656.5	2656.5	2656.5
7.5°	2559.2	2564.2	2561.7	2561.7	2559.2
10°	2432.0	2444.5	2452.0	2444.5	2434.5
12.5°	2292.3	2307.3	2322.3	2304.8	2294.8
15°	2135.2	2155.1	2177.6	2157.6	2132.7
17.5°	1965.6	1998.0	2030.4	1998.0	1970.5
20°	1800.9	1838.3	1875.8	1835.9	1803.4
22.5°	1626.3	1661.2	1718.6	1666.2	1633.8
25°	1451.7	1501.6	1564.0	1504.1	1461.7
27.5°	1284.6	1337.0	1411.8	1347.0	1297.1
30°	1122.5	1179.8	1259.7	1189.8	1137.4
32.5°	970.3	1027.7	1105.0	1037.7	985.3
35°	830.6	883.0	960.3	893.0	848.1
37.5°	703.4	745.8	813.2	755.8	720.9
40°	583.7	623.6	685.9	631.1	598.6
42.5°	478.9	516.3	576.2	526.3	498.9
45°	396.6	426.5	476.4	431.5	411.6
47.5°	326.8	354.2	394.1	356.7	339.2
50°	269.4	291.8	324.3	296.8	281.9
52.5°	224.5	244.4	269.4	246.9	232.0
55°	187.1	202.0	212.0	204.5	192.1
57.5°	157.1	162.1	164.6	164.6	162.1
60°	132.2	127.2	127.2	129.7	134.7
62.5°	109.8	99.8	97.3	102.3	112.2
65°	82.3	77.3	72.3	77.3	84.8
67.5°	62.4	54.9	52.4	57.4	64.9
70°	44.9	39.9	37.4	39.9	44.9
72.5°	27.4	27.4	22.4	27.4	27.4
75°	15.0	15.0	12.5	15.0	15.0
77.5°	5.0	5.0	2.5	5.0	7.5
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)