

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: PORTFOLIO

Report Number: H22214

Luminaire Tested: **C6132-6150**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H22214
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: C6132-6150
Description: HALO 6" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH STIPPLED TOP
Light Source: 32W PL-T 32 WATTS 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

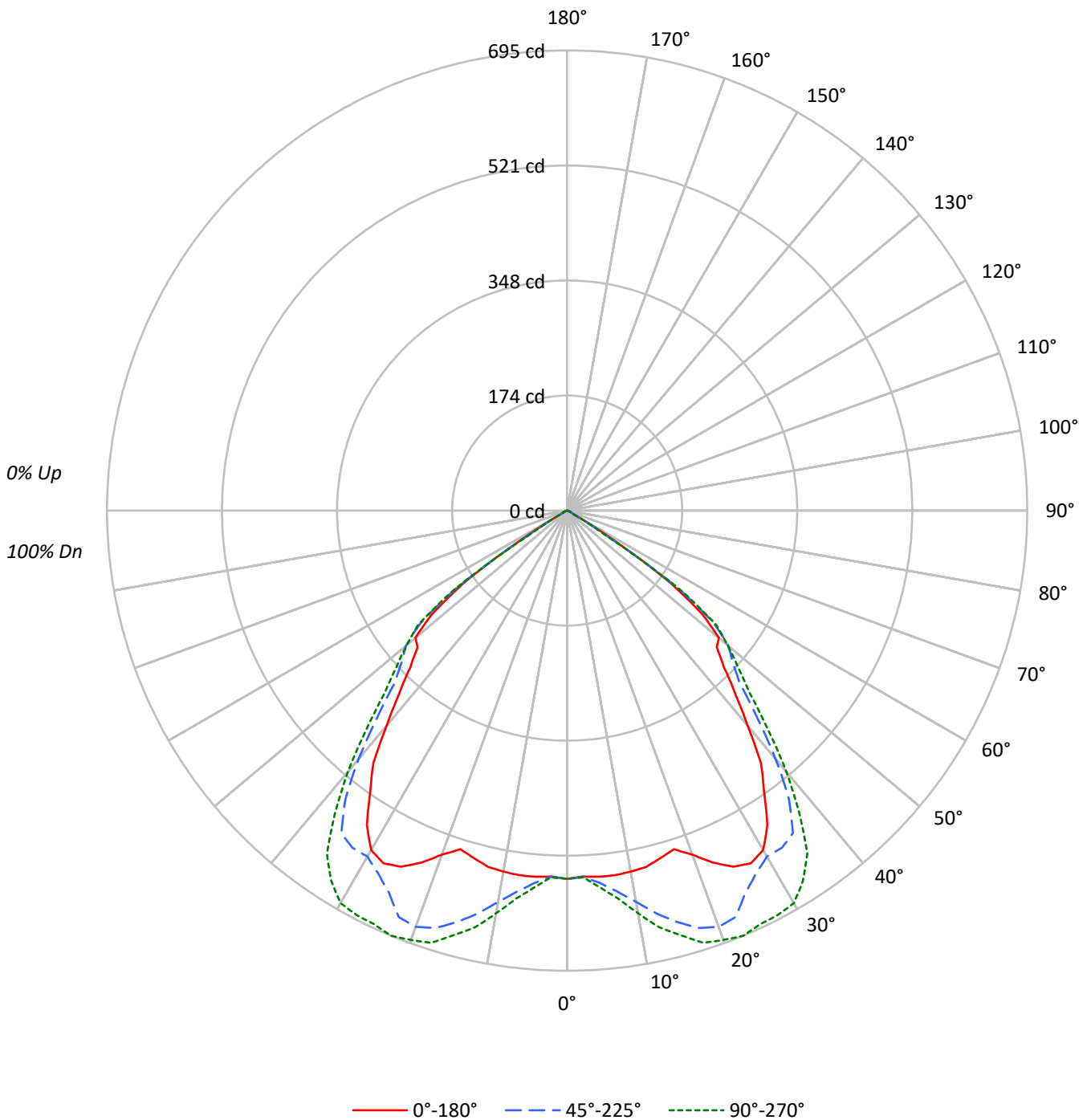
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1342.8 lumens
Efficiency: 56.0%
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.56 / 1.39
Luminous Opening: (L: 0 ' x W: -0.47 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 39
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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56						
1	63	61	59	58	61	60	58	57	57	56	55	55	54	53	53	52	52	51						
2	58	55	52	50	57	54	51	49	52	50	48	50	49	47	49	47	46	45						
3	54	50	46	43	53	49	46	43	47	45	42	46	44	42	45	43	41	40						
4	51	45	41	38	49	44	41	38	43	40	37	42	39	37	41	38	36	35						
5	47	41	37	34	46	40	36	34	39	36	33	38	35	33	37	35	33	32						
6	44	37	33	30	43	37	33	30	36	32	30	35	32	29	34	31	29	28						
7	41	34	30	27	40	34	30	27	33	29	27	32	29	26	31	29	26	25						
8	38	31	27	24	37	31	27	24	30	27	24	30	26	24	29	26	24	23						
9	36	29	25	22	35	29	25	22	28	24	22	27	24	22	27	24	22	21						
10	33	27	23	20	33	26	23	20	26	22	20	25	22	20	25	22	20	19						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	54.7	4.1	2.3	0°	556	556	556	556	556	
10°-20°	177.7	13.2	7.4	5°	555	558	564	570	572	53
20°-30°	295.7	22.0	12.3	15°	544	593	643	662	664	155
30°-40°	358.0	26.7	14.9	25°	593	608	637	680	690	272
40°-50°	291.5	21.7	12.1	35°	519	551	594	624	632	323
50°-60°	157.4	11.7	6.6	45°	335	350	368	383	390	266
60°-70°	6.6	0.5	0.3	55°	191	196	203	209	210	152
70°-80°	1.1	0.1	0.0	65°	5	5	6	6	7	6
80°-90°	0.0	0.0	0.0	75°	0	0	0	0	0	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	528.1	39.3	22.0	165°	0	0	0	0	0	0
0°-40°	886.1	66.0	36.9	175°	0	0	0	0	0	0
0°-60°	1335.0	99.4	55.6	180°	0	0	0	0	0	0
0°-90°	1342.8	100.0	56.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1342.8	100.0	56.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.2	556.2	556.2	556.2	556.2
2.5°	553.2	553.7	553.6	554.1	554.3
5°	555.1	558.4	564.4	569.9	571.5
7.5°	555.4	564.2	580.4	588.2	591.0
10°	553.6	572.6	600.1	613.7	617.5
12.5°	551.2	584.0	623.1	641.2	644.9
15°	543.5	592.7	643.4	661.6	663.9
17.5°	536.1	600.9	660.9	684.2	684.5
20°	552.9	609.9	669.1	690.5	690.1
22.5°	575.3	607.0	664.3	686.5	695.1
25°	593.4	607.6	636.9	680.3	689.5
27.5°	600.6	607.3	617.9	662.5	688.8
30°	592.0	597.7	603.3	654.4	684.6
32.5°	563.0	578.2	603.8	645.5	663.0
35°	518.6	551.3	594.5	623.8	632.4
37.5°	480.7	513.7	550.4	573.3	575.9
40°	424.1	453.8	490.2	512.6	515.1
42.5°	376.0	397.8	425.4	440.7	449.5
45°	335.2	349.5	367.8	382.6	389.7
47.5°	306.4	317.7	338.6	348.6	349.9
50°	298.9	305.5	317.8	318.1	316.2
52.5°	257.7	264.6	279.0	284.0	283.8
55°	190.9	196.4	203.3	209.3	210.1
57.5°	83.8	80.7	74.9	69.7	64.0
60°	13.5	14.0	13.7	13.6	14.1
62.5°	7.4	7.5	7.9	8.5	9.1
65°	5.4	5.4	5.7	6.3	6.6
67.5°	4.1	4.2	4.4	4.8	5.1
70°	3.2	3.2	3.4	3.7	4.0
72.5°	2.4	2.5	2.6	2.8	3.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)