

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: H22212

Luminaire Tested: **C6132-6150**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H22212
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: F32TTT 32 WATTS 2400 LUMENS
TRIPLE TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

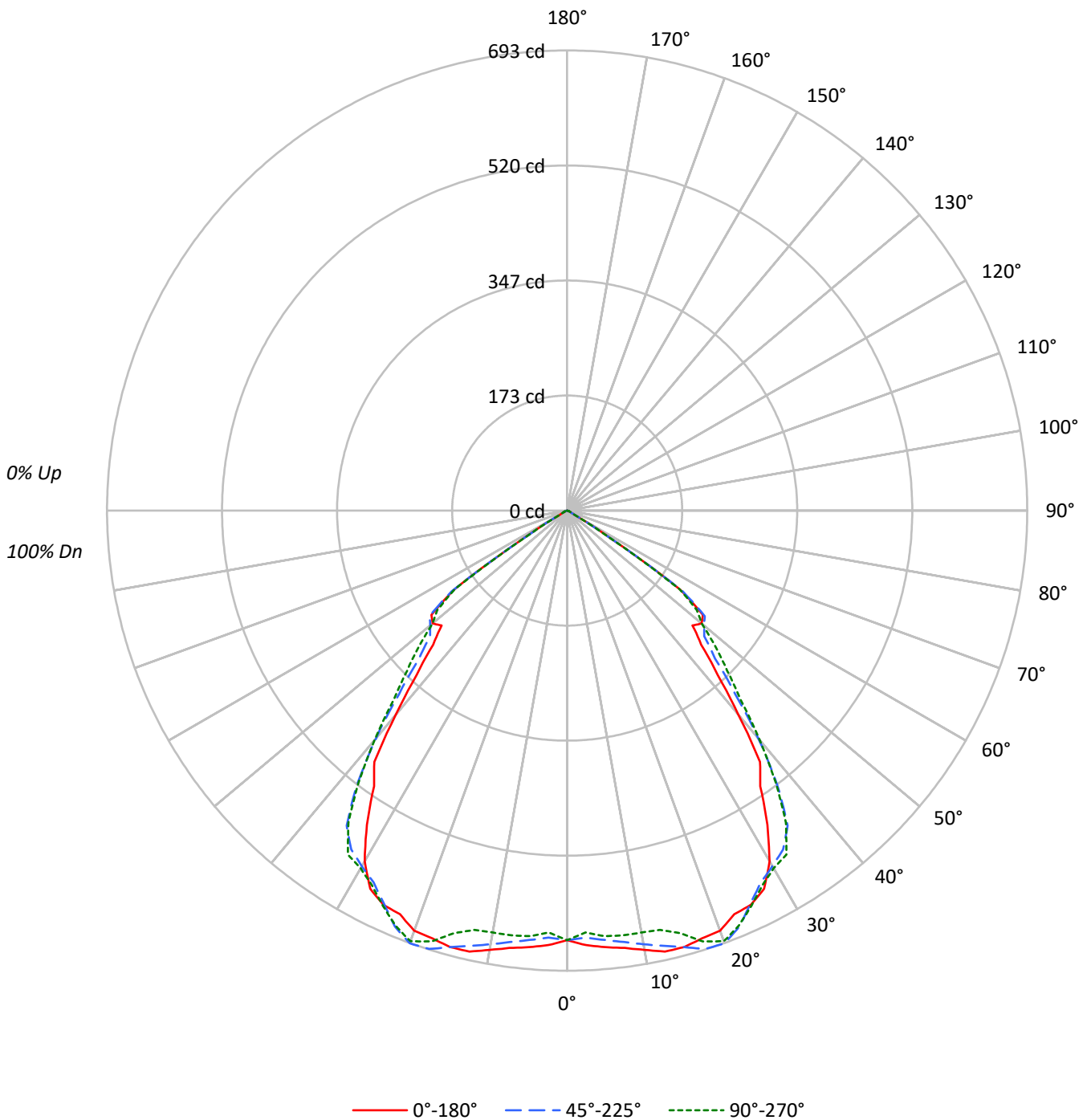
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1312.6 lumens
Efficiency: 54.7%
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.38 / 1.27
Luminous Opening: (L: 0 ' x W: -0.47 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 35
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	65	65	65	65	64	64	64	64	61	61	61	58	58	58	56	56	56	55	55	55	55			
1	61	60	58	56	60	58	57	56	56	55	54	54	53	52	52	51	51	50	50	50	50			
2	57	54	51	49	56	53	51	48	51	49	47	50	48	46	48	47	45	44	44	44	44			
3	53	49	46	43	52	48	45	43	47	44	42	45	43	41	44	42	41	40	40	40	40			
4	50	45	41	38	49	44	40	38	43	40	37	41	39	37	40	38	36	35	35	35	35			
5	46	41	37	34	45	40	36	33	39	36	33	38	35	33	37	35	33	32	32	32	32			
6	43	37	33	30	42	37	33	30	36	32	30	35	32	30	34	31	29	28	28	28	28			
7	40	34	30	27	39	34	30	27	33	29	27	32	29	27	31	29	27	26	26	26	26			
8	38	31	27	25	37	31	27	24	30	27	24	30	27	24	29	26	24	23	23	23	23			
9	35	29	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21	21	21	21			
10	33	27	23	20	33	27	23	20	26	23	20	26	22	20	25	22	20	19	19	19	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°	62.5	4.8	2.6	0°	647	647	647	647	647	
10°-20°	192.4	14.7	8.0	5°	660	655	649	649	643	63
20°-30°	303.9	23.2	12.7	15°	680	686	681	669	659	192
30°-40°	343.3	26.2	14.3	25°	655	676	653	658	656	300
40°-50°	253.2	19.3	10.5	35°	507	550	579	577	574	320
50°-60°	149.9	11.4	6.2	45°	286	297	315	334	341	233
60°-70°	6.4	0.5	0.3	55°	209	210	213	209	206	151
70°-80°	1.1	0.1	0.0	65°	5	5	6	6	6	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°	558.8	42.6	23.3	165°	0	0	0	0	0	0
0°-40°	902.1	68.7	37.6	175°	0	0	0	0	0	0
0°-60°	1305.1	99.4	54.4	180°	0	0	0	0	0	0
0°-90°	1312.6	100.0	54.7							
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°	1312.6	100.0	54.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.8	646.8	646.8	646.8	646.8
2.5°	655.1	650.1	643.6	642.4	636.1
5°	659.8	655.0	649.2	649.1	643.3
7.5°	664.4	660.6	655.3	652.4	645.2
10°	671.7	670.3	663.1	655.6	645.2
12.5°	680.3	681.0	671.4	660.1	646.7
15°	680.4	685.5	680.6	669.4	658.8
17.5°	675.4	689.4	692.1	688.1	680.2
20°	673.3	694.3	693.4	691.1	690.0
22.5°	657.9	686.2	677.9	683.8	676.3
25°	655.0	676.3	652.9	658.5	656.5
27.5°	642.1	655.9	631.4	633.7	636.3
30°	609.7	625.8	618.3	623.3	622.0
32.5°	561.2	584.5	605.0	613.4	614.3
35°	507.0	549.7	578.9	576.9	574.1
37.5°	476.9	504.2	519.3	522.7	515.6
40°	401.5	427.9	448.4	454.3	450.9
42.5°	335.4	352.8	375.1	384.3	386.9
45°	285.5	296.9	315.2	333.5	340.8
47.5°	256.1	263.7	279.9	300.3	302.4
50°	264.3	269.0	268.9	266.6	264.4
52.5°	257.8	257.8	261.2	253.0	246.3
55°	208.6	209.5	212.6	208.9	206.0
57.5°	78.9	76.1	72.4	71.0	72.8
60°	12.4	12.9	13.4	13.9	13.9
62.5°	7.2	7.3	7.6	8.1	8.4
65°	5.2	5.3	5.5	5.9	6.1
67.5°	4.0	4.1	4.2	4.6	4.8
70°	3.1	3.2	3.3	3.6	3.7
72.5°	2.4	2.4	2.5	2.7	2.9
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)