

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: H22215

Luminaire Tested: **C6132-6181**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H22215
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: C6132-6181
Description: HALO 6" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH PLASTIC PRISMATIC LENS
Light Source: 32W PL-T 32 WATTS 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT
Ballast/Driver: -

Summary

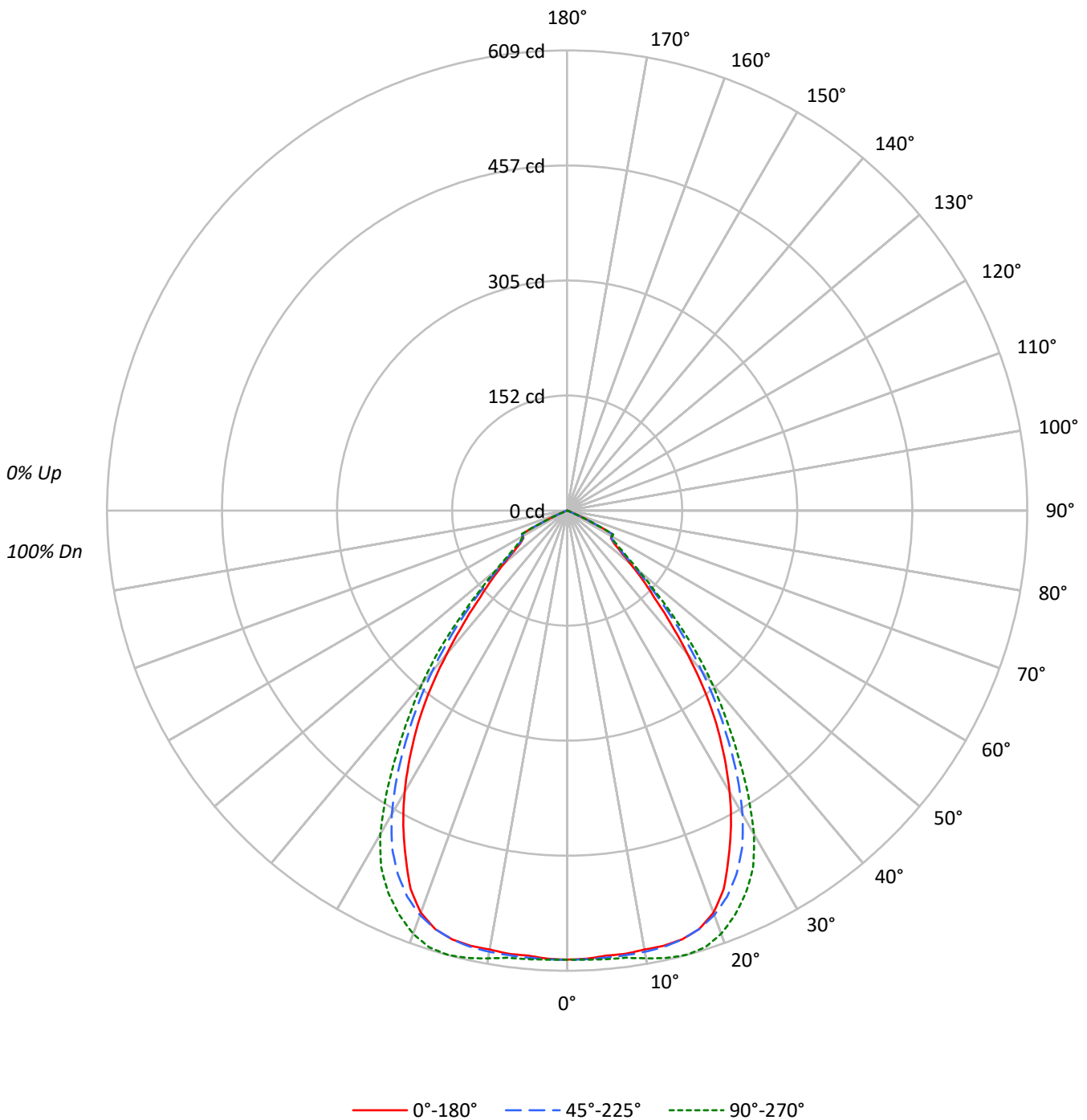
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 952.5 lumens
Efficiency: 39.7%
Efficacy: 24.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.21 / 1.12
Luminous Opening: (L: 0 ' x W: -0.47 ' x H: 0 '
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	40	40	40	40
1	45	43	42	41	44	42	41	40	41	40	39	39	39	38	38	37	37	38	37	37	36
2	42	39	37	36	41	39	37	35	37	36	35	36	35	34	35	34	33	35	34	33	32
3	39	36	33	32	38	35	33	31	34	32	31	33	32	30	32	31	30	32	31	30	29
4	36	33	30	28	36	32	30	28	31	29	28	31	29	27	30	28	27	30	28	27	26
5	34	30	27	25	33	30	27	25	29	27	25	28	26	25	27	26	24	27	26	24	24
6	32	28	25	23	31	27	25	23	27	24	22	26	24	22	25	24	22	25	24	22	21
7	30	26	23	21	29	25	22	21	25	22	20	24	22	20	24	22	20	24	22	20	20
8	28	24	21	19	28	23	21	19	23	20	19	22	20	19	22	20	19	22	20	19	18
9	26	22	19	17	26	22	19	17	21	19	17	21	19	17	21	19	17	21	19	17	16
10	25	20	18	16	25	20	18	16	20	18	16	20	17	16	19	17	16	19	17	16	15

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°	56.7	6.0	2.4	0°	594	594	594	594	594	
10°-20°	166.9	17.5	7.0	5°	591	592	594	596	596	56
20°-30°	242.6	25.5	10.1	15°	588	584	588	601	609	165
30°-40°	230.4	24.2	9.6	25°	506	516	530	548	559	231
40°-50°	145.0	15.2	6.0	35°	344	353	372	390	394	213
50°-60°	75.3	7.9	3.1	45°	164	173	187	196	200	130
60°-70°	34.4	3.6	1.4	55°	76	79	79	83	83	72
70°-80°	1.2	0.1	0.0	65°	32	33	31	30	29	35
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°	466.2	48.9	19.4	165°	0	0	0	0	0	0
0°-40°	696.6	73.1	29.0	175°	0	0	0	0	0	0
0°-60°	917.0	96.3	38.2	180°	0	0	0	0	0	0
0°-90°	952.5	100.0	39.7							
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°	952.5	100.0	39.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.3	594.3	594.3	594.3	594.3
2.5°	593.5	594.3	594.3	594.7	594.8
5°	591.3	592.5	593.9	595.7	596.0
7.5°	591.6	591.7	593.5	596.0	596.9
10°	589.9	591.6	593.0	597.4	601.7
12.5°	590.0	588.5	591.5	600.2	606.5
15°	587.6	584.5	587.6	600.8	608.8
17.5°	580.7	574.8	580.8	597.9	606.2
20°	566.3	561.9	569.6	587.2	596.1
22.5°	541.6	542.7	553.0	570.1	579.6
25°	505.8	516.2	530.5	548.4	559.2
27.5°	469.8	481.1	502.1	522.7	532.9
30°	430.4	440.1	464.2	485.4	494.6
32.5°	387.6	397.0	420.1	439.9	445.7
35°	344.0	352.7	371.8	390.2	393.6
37.5°	296.9	304.6	324.9	341.4	344.4
40°	247.8	258.1	277.7	295.4	298.1
42.5°	202.9	211.9	231.3	247.2	250.7
45°	163.8	172.6	186.6	196.3	200.1
47.5°	135.3	140.4	149.4	155.7	156.5
50°	108.7	111.9	116.4	122.4	123.2
52.5°	88.8	92.4	93.7	99.1	98.9
55°	75.7	78.7	79.0	82.9	82.8
57.5°	68.8	70.4	70.1	72.3	71.9
60°	67.5	67.8	67.8	68.0	68.3
62.5°	67.4	67.6	67.7	68.7	68.7
65°	32.1	32.9	30.6	29.7	29.1
67.5°	6.6	6.6	6.2	6.0	5.9
70°	4.1	3.9	3.6	3.5	3.4
72.5°	2.9	2.8	2.5	2.4	2.3
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)