

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: H22513

Luminaire Tested: **C6142E-6181P6**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H22513
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: C6142E-6181P6
Description: PORTFOLIO 6 IN RECESSED HORIZONTAL FLUORESCENT DOWNLIGHT
WITH SEMI SPECULAR PRIMARY REFLECTOR, PAINTED SECONDARY REFLECTOR
WITH LOUVERS(NO HOLES)
Light Source: 4 PIN TTT COMPACT FLUORESCENT LAMP
CFL42W/U/4P 42 WATTS
Ballast/Driver: -

Summary

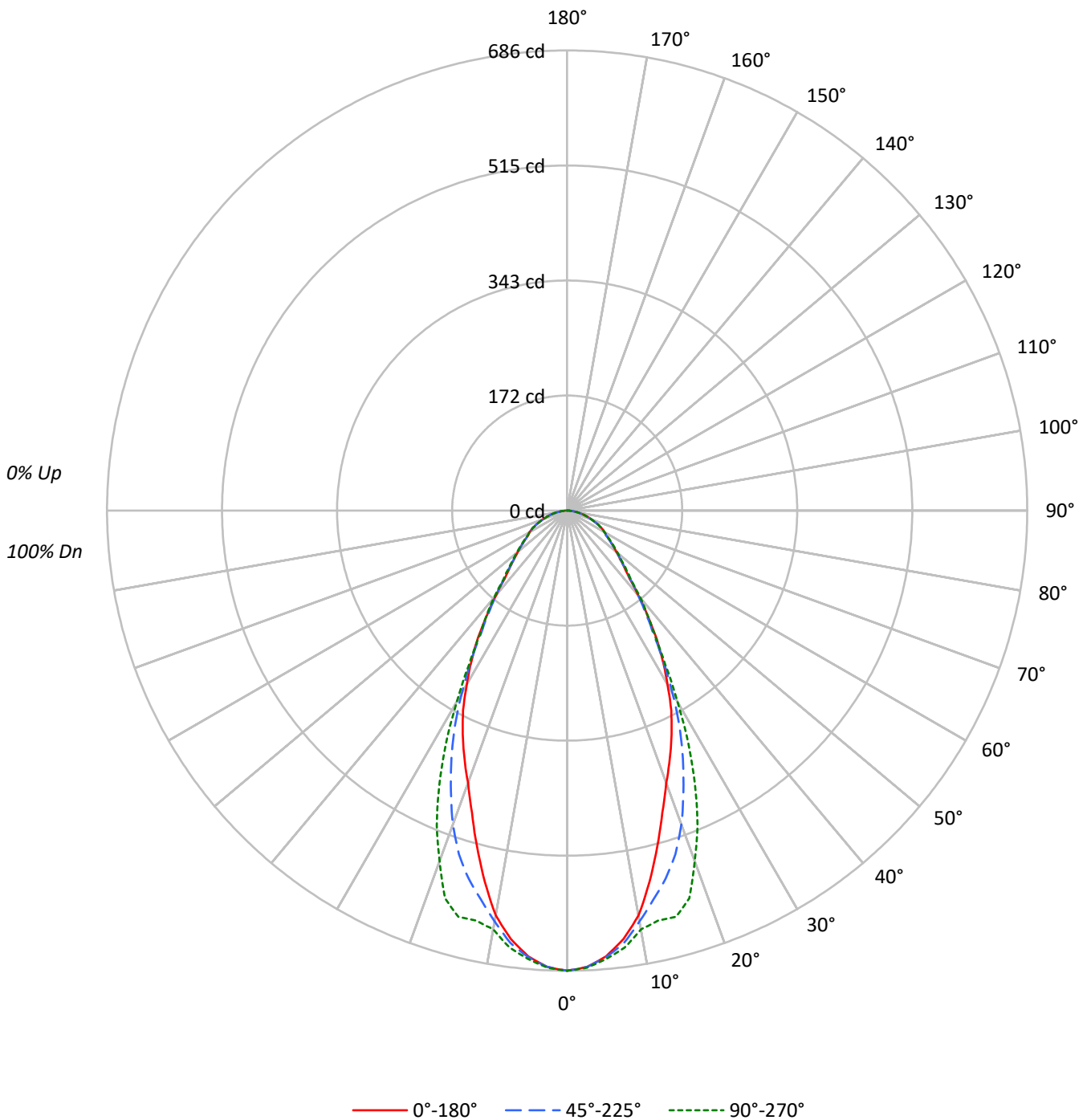
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 809.4 lumens
Efficiency: 25.3%
Efficacy: 16.2 lumens/watt
Spacing Criteria (0/90/45): 0.76 / 0.92 / 0.88
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	0
RCR																		
0	30	30	30	30	29	29	29	29	28	28	28	27	27	27	26	26	26	25
1	28	27	26	26	27	27	26	25	26	25	24	25	24	24	24	23	23	22
2	26	25	23	22	26	24	23	22	23	22	21	22	22	21	22	21	20	20
3	24	22	21	19	24	22	20	19	21	20	19	21	19	18	20	19	18	18
4	23	20	19	17	22	20	18	17	19	18	17	19	18	17	18	17	16	16
5	21	19	17	15	21	18	17	15	18	16	15	17	16	15	17	16	15	14
6	20	17	15	14	20	17	15	14	17	15	14	16	15	14	16	15	14	13
7	19	16	14	13	18	16	14	13	15	14	13	15	14	13	15	14	13	12
8	18	15	13	12	17	15	13	12	14	13	12	14	13	12	14	13	12	11
9	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	12	11	10
10	16	13	11	10	16	13	11	10	13	11	10	13	11	10	12	11	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40948	40948	40948
5°	39966	40026	40205
10°	37155	37700	38428
15°	32072	35100	38746
20°	27441	31634	35318
25°	24237	26871	29703
30°	20609	21642	22676
35°	16906	16323	16614
40°	12857	12857	13247
45°	10214	10299	10552
50°	8915	9008	9193
55°	8013	8013	8221
60°	7760	7760	7640
65°	7344	7344	7344
70°	6806	6806	6806
75°	6227	6227	6227
80°	5500	5500	5500
85°	4794	4794	4794



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	62.4	7.7	1.9	0°	686	686	686	686	686	
10°-20°	159.0	19.6	5.0	5°	667	667	668	669	671	62
20°-30°	188.0	23.2	5.9	15°	519	537	568	605	627	145
30°-40°	144.9	17.9	4.5	25°	368	397	408	439	451	168
40°-50°	96.6	11.9	3.0	35°	232	235	224	227	228	144
50°-60°	70.4	8.7	2.2	45°	121	121	122	124	125	95
60°-70°	51.5	6.4	1.6	55°	77	77	77	79	79	70
70°-80°	28.7	3.5	0.9	65°	52	52	52	52	52	51
80°-90°	8.0	1.0	0.2	75°	27	27	27	27	27	29
90°-100°	0.0	0.0	0.0	85°	7	7	7	7	7	7
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°	409.3	50.6	12.8	165°	0	0	0	0	0	0
0°-40°	554.2	68.5	17.3	175°	0	0	0	0	0	0
0°-60°	721.2	89.1	22.5	180°	0	0	0	0	0	0
0°-90°	809.4	100.0	25.3							
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°	809.4	100.0	25.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686	686	686	686	686
2.5°	681	681	681	682	682
5°	667	667	668	669	671
7.5°	644	646	650	655	657
10°	613	615	622	628	634
12.5°	567	575	594	613	626
15°	519	537	568	605	627
17.5°	472	502	537	584	606
20°	432	468	498	540	556
22.5°	400	435	453	493	508
25°	368	397	408	439	451
27.5°	336	355	363	383	391
30°	299	310	314	325	329
32.5°	265	271	267	271	272
35°	232	235	224	227	228
37.5°	196	199	192	192	197
40°	165	167	165	164	170
42.5°	138	140	141	140	142
45°	121	121	122	124	125
47.5°	107	107	108	110	110
50°	96	96	97	99	99
52.5°	86	86	86	88	88
55°	77	77	77	79	79
57.5°	69	69	69	70	70
60°	65	65	65	65	64
62.5°	59	59	59	59	59
65°	52	52	52	52	52
67.5°	45	45	45	46	45
70°	39	39	39	39	39
72.5°	33	33	33	33	33
75°	27	27	27	27	27
77.5°	21	21	21	22	22
80°	16	16	16	16	16
82.5°	11	11	11	12	11
85°	7	7	7	7	7
87.5°	3	3	3	3	3
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)