

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: H22508

Luminaire Tested: **C6142E-6180LI1**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H22508
Test Lab: Peachtree City
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: C6142E-6180L1
Description: PORTFOLIO 6 IN RECESSED FLUORESCENT DOWNLIGHT
WITH SEMI SPECULAR PRIMARY REFLECTOR AND SPECULAR SECONDARY REFLECTOR
WITH PRISMATIC LENS AND MODIFIED SOCKET BRACKET
Light Source: 4 PIN TTT COMPACT FLUORESCENT LAMP
CFL42W/U/4P 42 WATTS
Ballast/Driver: -

Summary

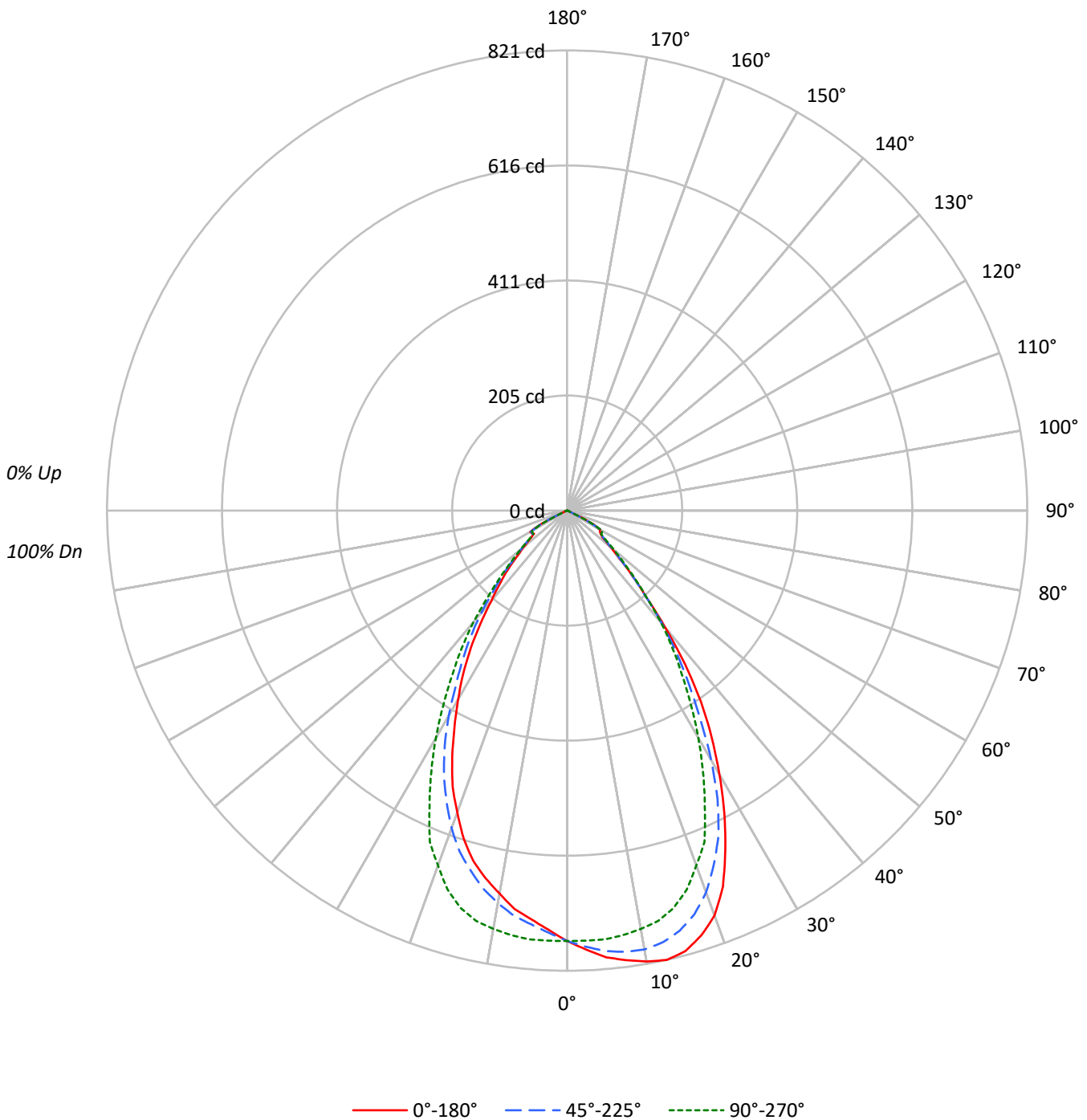
Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 986.1 lumens
Efficiency: 30.8%
Efficacy: 20.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1
Luminous Opening: Circular (Dia: 0.47' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: H22508
CATALOG NUMBER: C6142E-6180L11

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	37	37	37	37	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	35	34	33	32	34	33	32	32	32	31	31	31	30	30	30	29	29	28
2	33	31	29	28	32	30	29	28	29	28	27	28	27	27	27	27	26	26
3	31	28	26	25	30	28	26	25	27	26	24	26	25	24	25	25	24	23
4	29	26	24	22	28	26	24	22	25	23	22	24	23	22	24	23	22	21
5	27	24	22	20	26	24	22	20	23	21	20	23	21	20	22	21	20	19
6	25	22	20	19	25	22	20	18	21	20	18	21	19	18	21	19	18	18
7	24	21	18	17	23	20	18	17	20	18	17	20	18	17	19	18	17	16
8	23	19	17	16	22	19	17	16	19	17	15	18	17	15	18	16	15	15
9	21	18	16	14	21	18	16	14	17	16	14	17	15	14	17	15	14	14
10	20	17	15	13	20	17	15	13	16	15	13	16	14	13	16	14	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47903	47903	47903
5°	50089	48086	45832
10°	51745	48008	43955
15°	52563	47397	41779
20°	51043	44738	38034
25°	45973	39985	33378
30°	39108	33706	28017
35°	31676	27183	22843
40°	22147	21170	17180
45°	14466	14996	13320
50°	9704	10577	9704
55°	7938	8047	7830
60°	8483	9106	9481
65°	1181	1033	1181
70°	547	547	547
75°	482	482	482
80°	359	359	359
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	72.8	7.4	2.3	0°	768	768	768	768	768	
10°-20°	203.3	20.6	6.4	5°	800	789	768	741	732	77
20°-30°	263.6	26.7	8.2	15°	814	776	734	665	647	228
30°-40°	221.2	22.4	6.9	25°	668	639	581	520	485	304
40°-50°	127.8	13.0	4.0	35°	416	379	357	325	300	256
50°-60°	71.1	7.2	2.2	45°	164	165	170	162	151	131
60°-70°	24.1	2.4	0.8	55°	73	73	74	75	72	68
70°-80°	1.9	0.2	0.1	65°	8	7	7	8	8	24
80°-90°	0.4	0.0	0.0	75°	2	2	2	2	2	2
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	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	539.6	54.7	16.9							
0°-40°	760.9	77.2	23.8							
0°-60°	959.7	97.3	30.0							
0°-90°	986.1	100.0	30.8							
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°	986.1	100.0	30.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	768	768	768	768	768	768	768	768	768
2.5°	784	783	779	774	768	760	754	750	749
5°	800	795	789	779	768	754	741	733	732
7.5°	809	805	794	780	764	746	729	718	717
10°	817	813	795	780	758	734	711	699	694
12.5°	821	811	789	772	750	720	691	679	672
15°	814	801	776	758	734	699	665	650	647
17.5°	795	779	755	736	709	677	638	619	614
20°	769	749	725	705	674	639	603	582	573
22.5°	726	706	684	665	640	600	562	542	534
25°	668	655	639	616	581	552	520	499	485
27.5°	607	599	581	555	525	498	473	452	435
30°	543	533	514	491	468	445	422	399	389
32.5°	480	466	442	425	411	391	369	352	345
35°	416	402	379	366	357	345	325	306	300
37.5°	345	336	321	314	308	301	282	262	253
40°	272	271	263	261	260	254	238	218	211
42.5°	208	209	206	207	209	205	195	182	178
45°	164	162	165	164	170	166	162	151	151
47.5°	126	124	129	128	135	132	130	122	122
50°	100	98	103	103	109	107	107	99	100
52.5°	80	79	84	84	88	87	88	83	84
55°	73	73	73	74	74	73	75	74	72
57.5°	69	69	71	71	73	73	74	74	75
60°	68	69	70	72	73	73	75	76	76
62.5°	52	48	46	46	48	50	52	54	55
65°	8	8	7	7	7	7	8	8	8
67.5°	4	4	4	4	4	4	4	5	5
70°	3	3	3	3	3	3	3	3	3
72.5°	2	2	2	2	2	2	2	3	3
75°	2	2	2	2	2	2	2	2	2
77.5°	1	1	1	1	1	1	1	1	2
80°	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	1	0	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)