

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: CORELITE

Report Number: P383773

Luminaire Tested: **14ID-85-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-85-L850-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

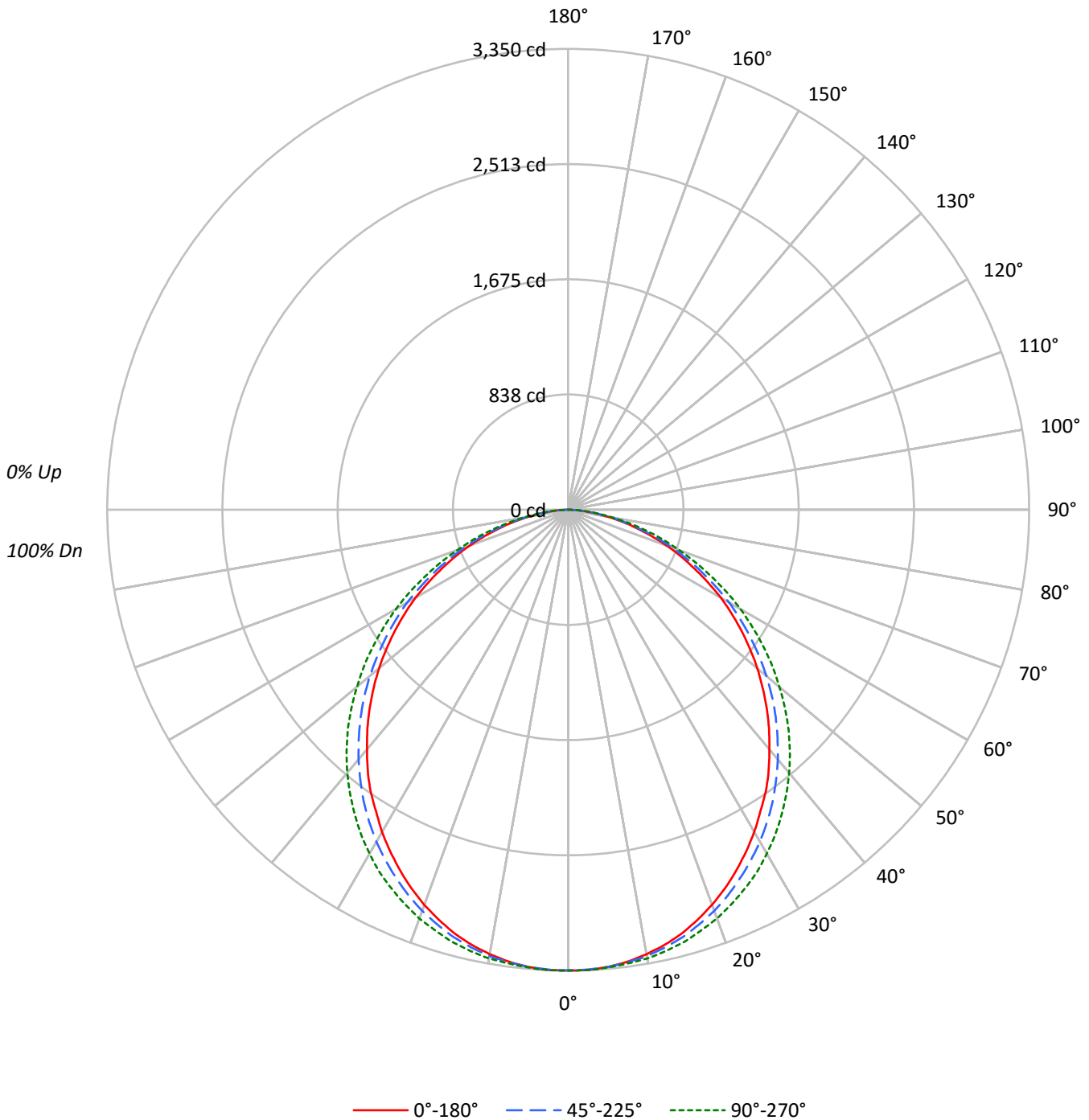
Lumens per Lamp: N/A
Luminaire Lumens: 9097.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
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: P383773
CATALOG NUMBER: 14ID-85-L850-CFR1

Luminous Intensity Polar Plot





TEST NUMBER: P383773

CATALOG NUMBER: 14ID-85-L850-CFR1

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9014	9014	9014
5°	9011	9011	9024
10°	8966	9003	9053
15°	8886	8963	9065
20°	8754	8885	9056
25°	8587	8777	9022
30°	8404	8660	8973
35°	8223	8509	8884
40°	7990	8327	8777
45°	7767	8115	8620
50°	7510	7874	8391
55°	7214	7579	8115
60°	6896	7266	7783
65°	6439	6818	7284
70°	5976	6301	6733
75°	5329	5614	6091
80°	4468	4680	5106
85°	3390	3390	3816



TEST NUMBER: P383773

CATALOG NUMBER: 14ID-85-L850-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.0	3.5
10°-20°	907.2	10.0
20°-30°	1364.0	15.0
30°-40°	1622.6	17.8
40°-50°	1651.1	18.1
50°-60°	1453.1	16.0
60°-70°	1065.9	11.7
70°-80°	578.5	6.4
80°-90°	138.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2588.2	28.5
0°-40°	4210.9	46.3
0°-60°	7315.0	80.4
0°-90°	9097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9097.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3350	3350	3350	3350	3350	
5°	3336	3332	3336	3336	3341	317
15°	3190	3194	3217	3235	3254	898
25°	2892	2910	2956	3007	3039	1332
35°	2503	2522	2590	2668	2704	1563
45°	2041	2059	2132	2224	2265	1573
55°	1538	1560	1615	1693	1730	1375
65°	1011	1030	1071	1117	1144	1005
75°	512	522	540	567	586	545
85°	110	110	110	119	124	133
90°	0	0	0	0	0	



TEST NUMBER: P383773

CATALOG NUMBER: 14ID-85-L850-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3349.8	3349.8	3349.8	3349.8	3349.8
2.5°	3349.8	3345.2	3345.2	3345.2	3349.8
5°	3336.0	3331.5	3336.0	3336.0	3340.6
7.5°	3313.2	3308.6	3317.7	3322.3	3326.9
10°	3281.1	3281.1	3294.9	3304.0	3313.2
12.5°	3239.9	3244.5	3258.3	3272.0	3285.7
15°	3189.6	3194.2	3217.1	3235.4	3253.7
17.5°	3125.5	3134.7	3162.2	3189.6	3207.9
20°	3056.9	3070.6	3102.7	3139.3	3162.2
22.5°	2979.1	2997.4	3034.0	3079.8	3102.7
25°	2892.2	2910.5	2956.2	3006.6	3038.6
27.5°	2800.6	2823.5	2873.9	2933.3	2970.0
30°	2704.5	2727.4	2786.9	2851.0	2887.6
32.5°	2599.3	2626.7	2690.8	2764.0	2800.6
35°	2503.2	2521.5	2590.1	2667.9	2704.5
37.5°	2393.3	2416.2	2480.3	2562.7	2603.9
40°	2274.4	2297.2	2370.5	2452.8	2498.6
42.5°	2160.0	2178.3	2251.5	2343.0	2384.2
45°	2041.0	2059.3	2132.5	2224.0	2265.2
47.5°	1917.4	1940.3	2008.9	2095.9	2137.1
50°	1793.9	1812.2	1880.8	1963.2	2004.4
52.5°	1665.7	1684.0	1748.1	1830.5	1871.7
55°	1537.6	1560.5	1615.4	1693.2	1729.8
57.5°	1409.5	1432.3	1482.7	1555.9	1587.9
60°	1281.3	1299.6	1350.0	1414.0	1446.1
62.5°	1144.0	1157.8	1208.1	1272.2	1299.6
65°	1011.3	1029.6	1070.8	1116.6	1144.0
67.5°	887.8	896.9	933.5	983.9	1002.2
70°	759.6	768.8	800.8	842.0	855.7
72.5°	631.5	645.2	668.1	704.7	723.0
75°	512.5	521.7	540.0	567.4	585.8
77.5°	398.1	402.7	416.4	439.3	453.0
80°	288.3	292.9	302.0	320.3	329.5
82.5°	192.2	196.8	201.4	210.5	219.7
85°	109.8	109.8	109.8	119.0	123.6
87.5°	41.2	36.6	36.6	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)