

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: P384048

Luminaire Tested: **24ID-85-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L840-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

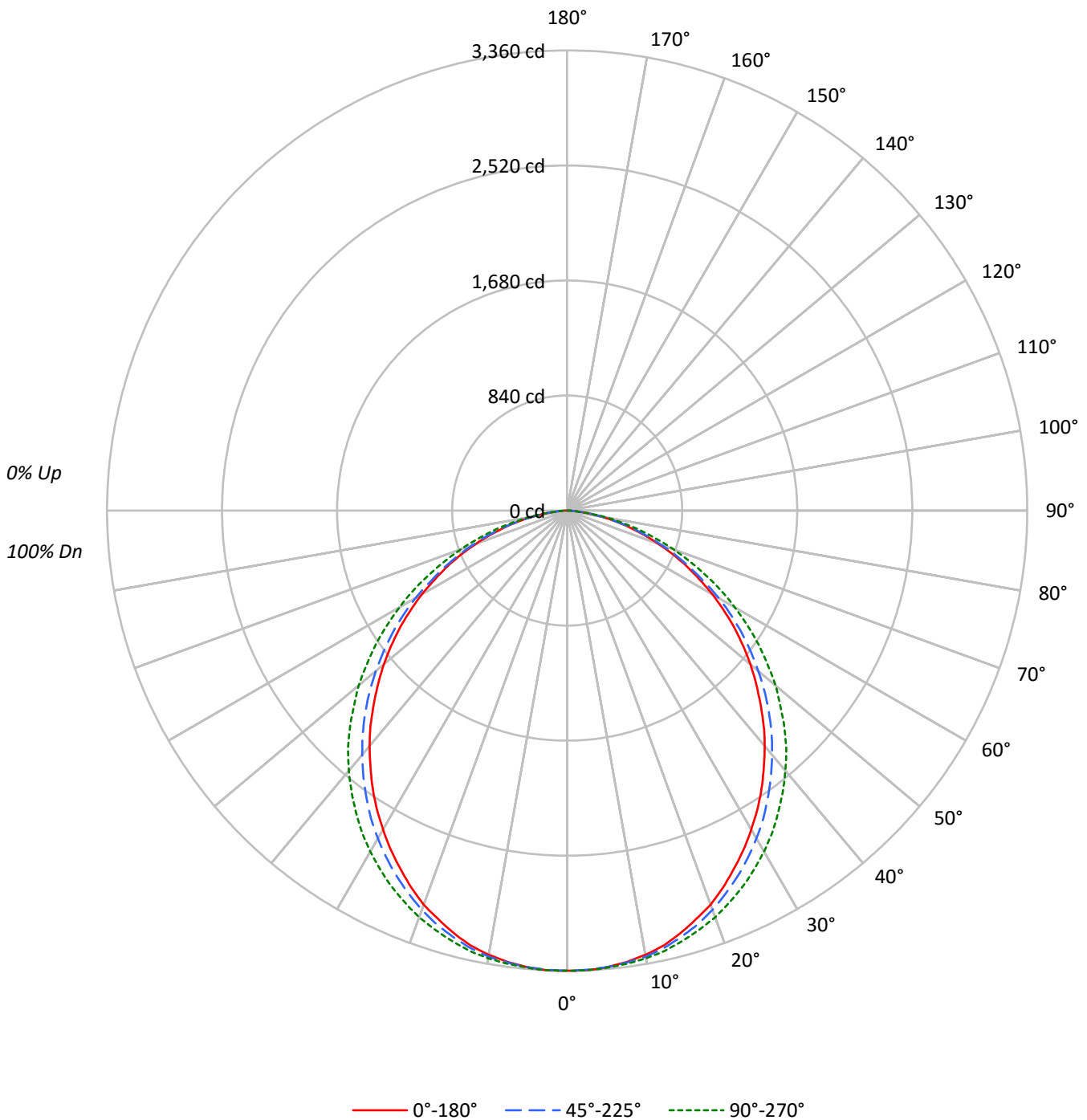
Lumens per Lamp: N/A
Luminaire Lumens: 8869.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.4
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: P384048
CATALOG NUMBER: 24ID-85-L840-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384048

CATALOG NUMBER: 24ID-85-L840-CFR2

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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4520	4520	4520
5°	4520	4520	4526
10°	4499	4517	4536
15°	4451	4488	4531
20°	4384	4441	4524
25°	4282	4374	4499
30°	4177	4295	4467
35°	4066	4197	4416
40°	3942	4090	4356
45°	3797	3966	4270
50°	3656	3814	4158
55°	3492	3649	4003
60°	3301	3444	3803
65°	3070	3169	3551
70°	2780	2885	3252
75°	2426	2518	2842
80°	1963	1998	2239
85°	1166	1303	1098



TEST NUMBER: P384048

CATALOG NUMBER: 24ID-85-L840-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	3.6
10°-20°	909.0	10.2
20°-30°	1359.8	15.3
30°-40°	1606.6	18.1
40°-50°	1621.2	18.3
50°-60°	1407.8	15.9
60°-70°	1009.5	11.4
70°-80°	525.9	5.9
80°-90°	111.0	1.3
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°	2586.9	29.2
0°-40°	4193.5	47.3
0°-60°	7222.5	81.4
0°-90°	8869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3360	3360	3360	3360	3360	
5°	3346	3342	3346	3346	3351	318
15°	3195	3200	3222	3244	3253	900
25°	2884	2902	2946	3004	3031	1329
35°	2475	2493	2555	2649	2689	1547
45°	1995	2018	2084	2191	2244	1541
55°	1489	1502	1555	1658	1706	1330
65°	964	960	996	1071	1116	953
75°	467	462	484	520	547	498
85°	76	84	84	76	71	108
90°	0	0	0	0	0	



TEST NUMBER: P384048

CATALOG NUMBER: 24ID-85-L840-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3359.7	3359.7	3359.7	3359.7	3359.7
2.5°	3359.7	3355.3	3355.3	3355.3	3359.7
5°	3346.4	3341.9	3346.4	3346.4	3350.8
7.5°	3324.1	3319.7	3328.6	3333.0	3337.5
10°	3293.0	3293.0	3306.4	3315.3	3319.7
12.5°	3253.0	3253.0	3270.8	3284.1	3293.0
15°	3195.3	3199.7	3221.9	3244.1	3253.0
17.5°	3128.6	3141.9	3168.6	3199.7	3208.6
20°	3061.9	3070.8	3101.9	3141.9	3159.7
22.5°	2977.5	2990.8	3026.4	3079.7	3097.5
25°	2884.2	2902.0	2946.4	3004.2	3030.8
27.5°	2790.9	2804.2	2857.5	2924.2	2955.3
30°	2688.6	2706.4	2764.2	2839.7	2875.3
32.5°	2586.4	2599.8	2666.4	2746.4	2786.4
35°	2475.3	2493.1	2555.3	2648.6	2688.6
37.5°	2359.8	2382.0	2444.2	2542.0	2586.4
40°	2244.2	2257.6	2328.7	2426.4	2479.8
42.5°	2124.3	2142.0	2208.7	2315.3	2368.7
45°	1995.4	2017.6	2084.3	2190.9	2244.2
47.5°	1870.9	1893.2	1955.4	2062.0	2110.9
50°	1746.5	1759.8	1822.1	1928.7	1986.5
52.5°	1617.6	1631.0	1688.7	1790.9	1844.3
55°	1488.8	1502.1	1555.4	1657.6	1706.5
57.5°	1355.4	1364.3	1417.6	1511.0	1559.9
60°	1226.6	1231.0	1279.9	1364.3	1413.2
62.5°	1088.8	1093.2	1128.8	1226.6	1271.0
65°	964.4	959.9	995.5	1071.0	1115.5
67.5°	835.5	835.5	866.6	933.2	968.8
70°	706.6	706.6	733.3	791.0	826.6
72.5°	586.6	586.6	608.8	653.3	679.9
75°	466.6	462.2	484.4	520.0	546.6
77.5°	355.5	355.5	364.4	395.5	413.3
80°	253.3	253.3	257.8	275.5	288.9
82.5°	160.0	160.0	160.0	168.9	173.3
85°	75.5	84.4	84.4	75.5	71.1
87.5°	35.6	35.6	31.1	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)