

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: P383884

Luminaire Tested: **24ID-90-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383884
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: 24ID-90-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

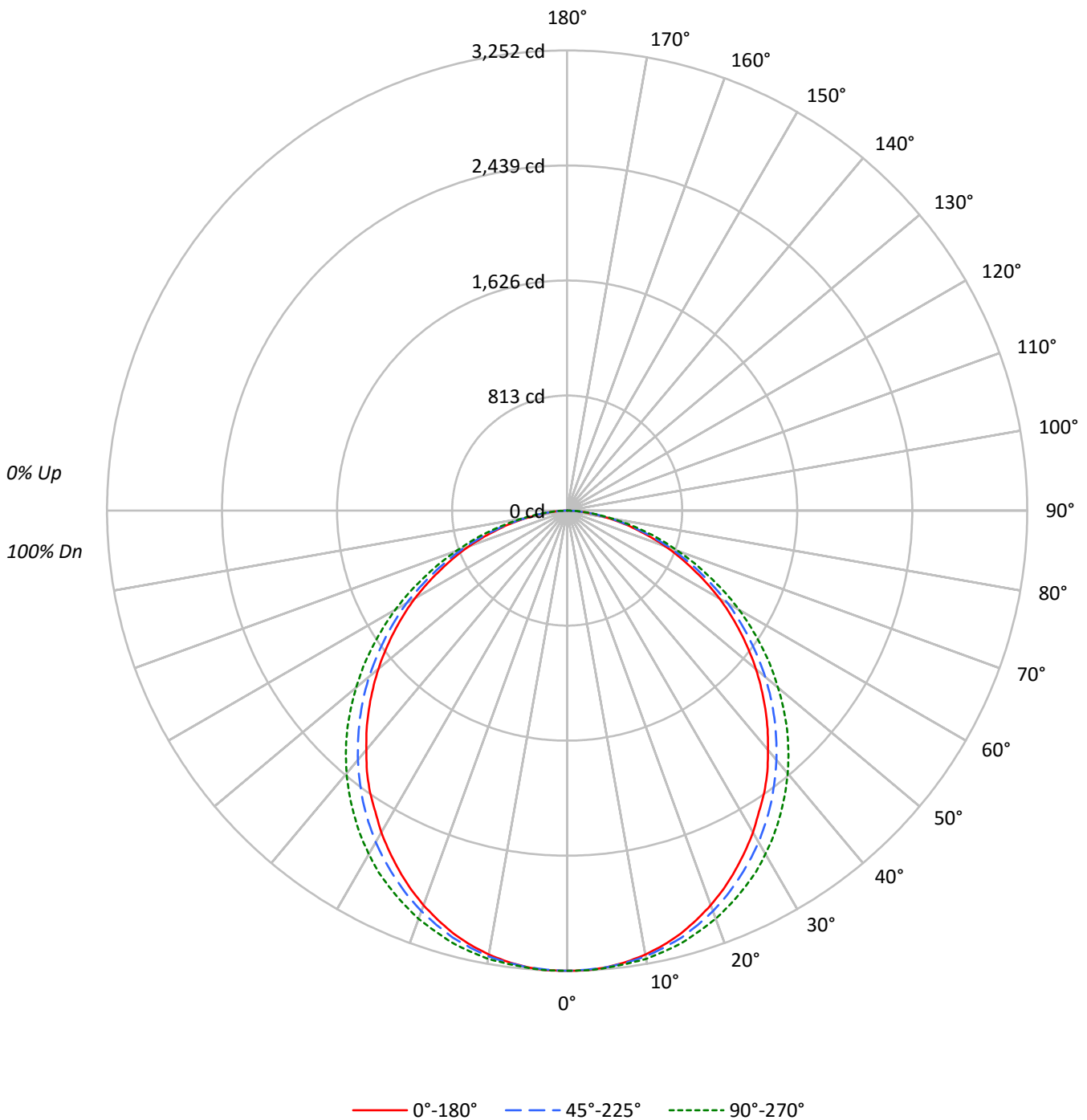
Lumens per Lamp: N/A
Luminaire Lumens: 8832.3 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.5
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: P383884
CATALOG NUMBER: 24ID-90-L840-CFR1

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	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°	4376	4376	4376
5°	4374	4374	4380
10°	4352	4370	4395
15°	4313	4351	4400
20°	4249	4313	4396
25°	4168	4261	4380
30°	4079	4204	4355
35°	3992	4130	4313
40°	3878	4042	4261
45°	3770	3939	4185
50°	3646	3822	4073
55°	3502	3679	3940
60°	3348	3527	3778
65°	3126	3310	3536
70°	2901	3059	3268
75°	2587	2725	2956
80°	2169	2272	2479
85°	1646	1646	1853



TEST NUMBER: P383884

CATALOG NUMBER: 24ID-90-L840-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	3.5
10°-20°	880.7	10.0
20°-30°	1324.3	15.0
30°-40°	1575.3	17.8
40°-50°	1602.9	18.1
50°-60°	1410.7	16.0
60°-70°	1034.8	11.7
70°-80°	561.7	6.4
80°-90°	134.0	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°	2512.8	28.4
0°-40°	4088.1	46.3
0°-60°	7101.8	80.4
0°-90°	8832.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8832.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3252	3252	3252	3252	3252	
5°	3239	3234	3239	3239	3243	307
15°	3097	3101	3123	3141	3159	872
25°	2808	2826	2870	2919	2950	1293
35°	2430	2448	2515	2590	2626	1517
45°	1982	1999	2070	2159	2199	1527
55°	1493	1515	1568	1644	1679	1335
65°	982	1000	1040	1084	1111	976
75°	498	506	524	551	569	529
85°	107	107	107	116	120	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3252.1	3252.1	3252.1	3252.1	3252.1
2.5°	3252.1	3247.7	3247.7	3247.7	3252.1
5°	3238.8	3234.4	3238.8	3238.8	3243.2
7.5°	3216.6	3212.1	3221.0	3225.5	3229.9
10°	3185.5	3185.5	3198.8	3207.7	3216.6
12.5°	3145.5	3149.9	3163.3	3176.6	3189.9
15°	3096.6	3101.1	3123.3	3141.1	3158.8
17.5°	3034.4	3043.3	3070.0	3096.6	3114.4
20°	2967.8	2981.1	3012.2	3047.8	3070.0
22.5°	2892.3	2910.0	2945.6	2990.0	3012.2
25°	2807.8	2825.6	2870.0	2918.9	2950.0
27.5°	2719.0	2741.2	2790.1	2847.8	2883.4
30°	2625.7	2647.9	2705.7	2767.9	2803.4
32.5°	2523.5	2550.2	2612.4	2683.4	2719.0
35°	2430.2	2448.0	2514.6	2590.1	2625.7
37.5°	2323.6	2345.8	2408.0	2488.0	2528.0
40°	2208.1	2230.3	2301.4	2381.3	2425.8
42.5°	2097.0	2114.8	2185.9	2274.7	2314.7
45°	1981.5	1999.3	2070.3	2159.2	2199.2
47.5°	1861.5	1883.7	1950.4	2034.8	2074.8
50°	1741.6	1759.3	1826.0	1906.0	1945.9
52.5°	1617.2	1634.9	1697.1	1777.1	1817.1
55°	1492.8	1515.0	1568.3	1643.8	1679.4
57.5°	1368.4	1390.6	1439.5	1510.6	1541.6
60°	1244.0	1261.8	1310.6	1372.8	1403.9
62.5°	1110.7	1124.0	1172.9	1235.1	1261.8
65°	981.9	999.6	1039.6	1084.0	1110.7
67.5°	861.9	870.8	906.3	955.2	973.0
70°	737.5	746.4	777.5	817.5	830.8
72.5°	613.1	626.4	648.6	684.2	702.0
75°	497.6	506.5	524.2	550.9	568.7
77.5°	386.5	391.0	404.3	426.5	439.8
80°	279.9	284.3	293.2	311.0	319.9
82.5°	186.6	191.0	195.5	204.4	213.3
85°	106.6	106.6	106.6	115.5	120.0
87.5°	40.0	35.5	35.5	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)