

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: P384043

Luminaire Tested: **24ID-80-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384043
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-80-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

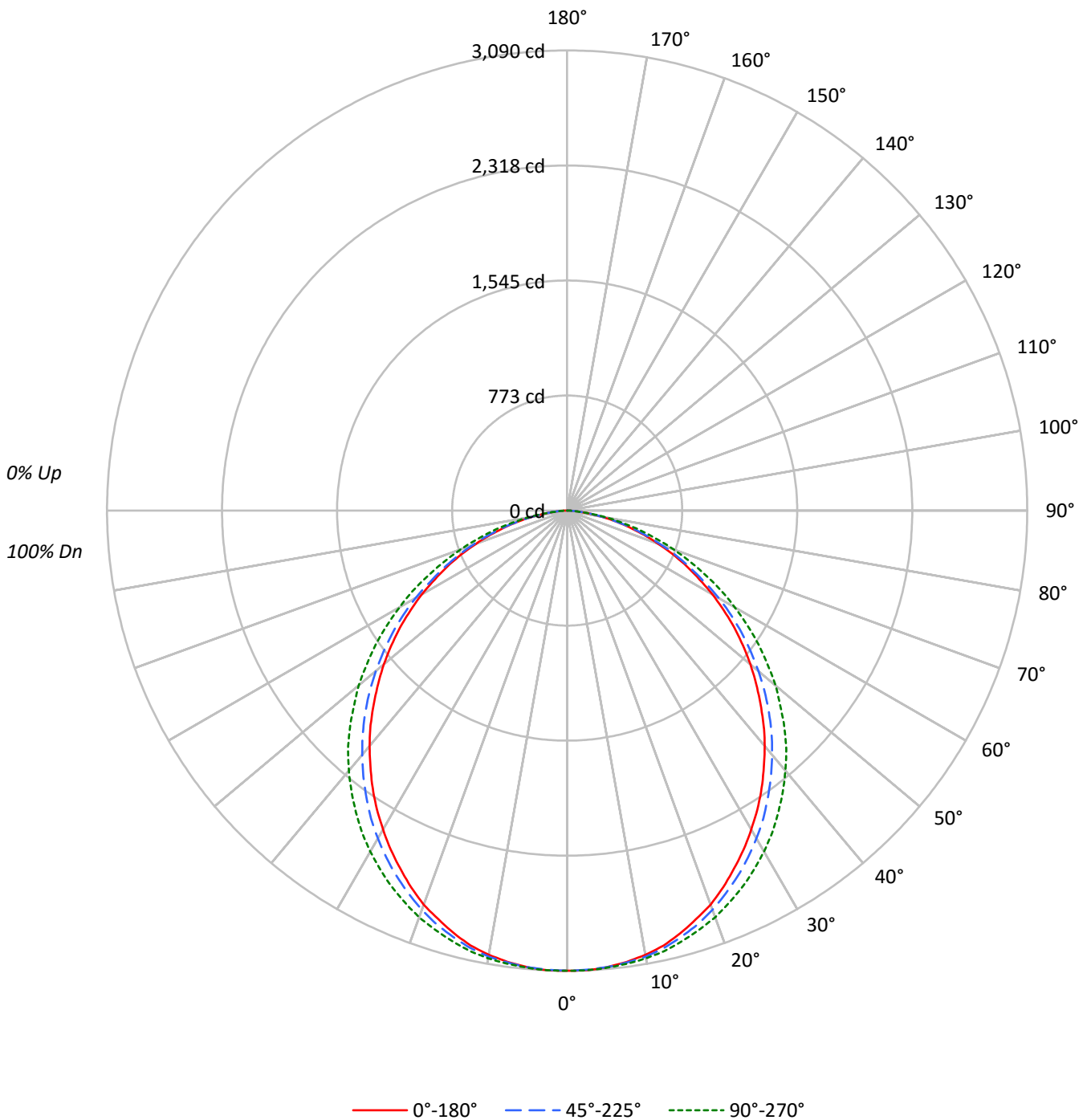
Lumens per Lamp: N/A
Luminaire Lumens: 8156.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77
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: P384043
CATALOG NUMBER: 24ID-80-L835-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384043

CATALOG NUMBER: 24ID-80-L835-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°	4157	4157	4157
5°	4157	4157	4162
10°	4138	4154	4171
15°	4093	4127	4167
20°	4032	4085	4161
25°	3938	4023	4138
30°	3842	3950	4108
35°	3739	3860	4061
40°	3625	3762	4005
45°	3492	3647	3927
50°	3362	3508	3824
55°	3212	3355	3681
60°	3035	3167	3497
65°	2824	2915	3266
70°	2556	2653	2991
75°	2231	2316	2613
80°	1805	1836	2059
85°	1073	1200	1010



TEST NUMBER: P384043

CATALOG NUMBER: 24ID-80-L835-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	3.6
10°-20°	836.0	10.2
20°-30°	1250.6	15.3
30°-40°	1477.5	18.1
40°-50°	1490.9	18.3
50°-60°	1294.7	15.9
60°-70°	928.4	11.4
70°-80°	483.7	5.9
80°-90°	102.1	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°	2379.1	29.2
0°-40°	3856.6	47.3
0°-60°	6642.2	81.4
0°-90°	8156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8156.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3090	3090	3090	3090	3090	
5°	3078	3073	3078	3078	3082	292
15°	2938	2943	2963	2984	2992	828
25°	2652	2669	2710	2763	2787	1222
35°	2276	2293	2350	2436	2473	1423
45°	1835	1856	1917	2015	2064	1417
55°	1369	1381	1430	1524	1569	1223
65°	887	883	916	985	1026	877
75°	429	425	446	478	503	458
85°	70	78	78	70	65	99
90°	0	0	0	0	0	



TEST NUMBER: P384043

CATALOG NUMBER: 24ID-80-L835-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3089.8	3089.8	3089.8	3089.8	3089.8
2.5°	3089.8	3085.7	3085.7	3085.7	3089.8
5°	3077.5	3073.4	3077.5	3077.5	3081.6
7.5°	3057.1	3053.0	3061.1	3065.2	3069.3
10°	3028.4	3028.4	3040.7	3048.9	3053.0
12.5°	2991.7	2991.7	3008.0	3020.3	3028.4
15°	2938.5	2942.6	2963.1	2983.5	2991.7
17.5°	2877.2	2889.5	2914.0	2942.6	2950.8
20°	2815.9	2824.1	2852.7	2889.5	2905.8
22.5°	2738.3	2750.5	2783.2	2832.3	2848.6
25°	2652.4	2668.8	2709.7	2762.8	2787.3
27.5°	2566.6	2578.9	2627.9	2689.2	2717.8
30°	2472.6	2489.0	2542.1	2611.6	2644.3
32.5°	2378.6	2390.9	2452.2	2525.7	2562.5
35°	2276.4	2292.8	2350.0	2435.8	2472.6
37.5°	2170.2	2190.6	2247.8	2337.7	2378.6
40°	2063.9	2076.2	2141.6	2231.5	2280.5
42.5°	1953.6	1969.9	2031.2	2129.3	2178.4
45°	1835.1	1855.5	1916.8	2014.9	2063.9
47.5°	1720.6	1741.1	1798.3	1896.4	1941.3
50°	1606.2	1618.4	1675.7	1773.7	1826.9
52.5°	1487.7	1499.9	1553.0	1647.1	1696.1
55°	1369.1	1381.4	1430.4	1524.4	1569.4
57.5°	1246.5	1254.7	1303.7	1389.6	1434.5
60°	1128.0	1132.1	1177.0	1254.7	1299.7
62.5°	1001.3	1005.4	1038.1	1128.0	1168.9
65°	886.9	882.8	915.5	985.0	1025.8
67.5°	768.4	768.4	797.0	858.3	891.0
70°	649.8	649.8	674.4	727.5	760.2
72.5°	539.5	539.5	559.9	600.8	625.3
75°	429.1	425.0	445.5	478.2	502.7
77.5°	327.0	327.0	335.1	363.7	380.1
80°	233.0	233.0	237.0	253.4	265.7
82.5°	147.1	147.1	147.1	155.3	159.4
85°	69.5	77.7	77.7	69.5	65.4
87.5°	32.7	32.7	28.6	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)