

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: P384046

Luminaire Tested: **24ID-85-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384046
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-L830-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8476.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

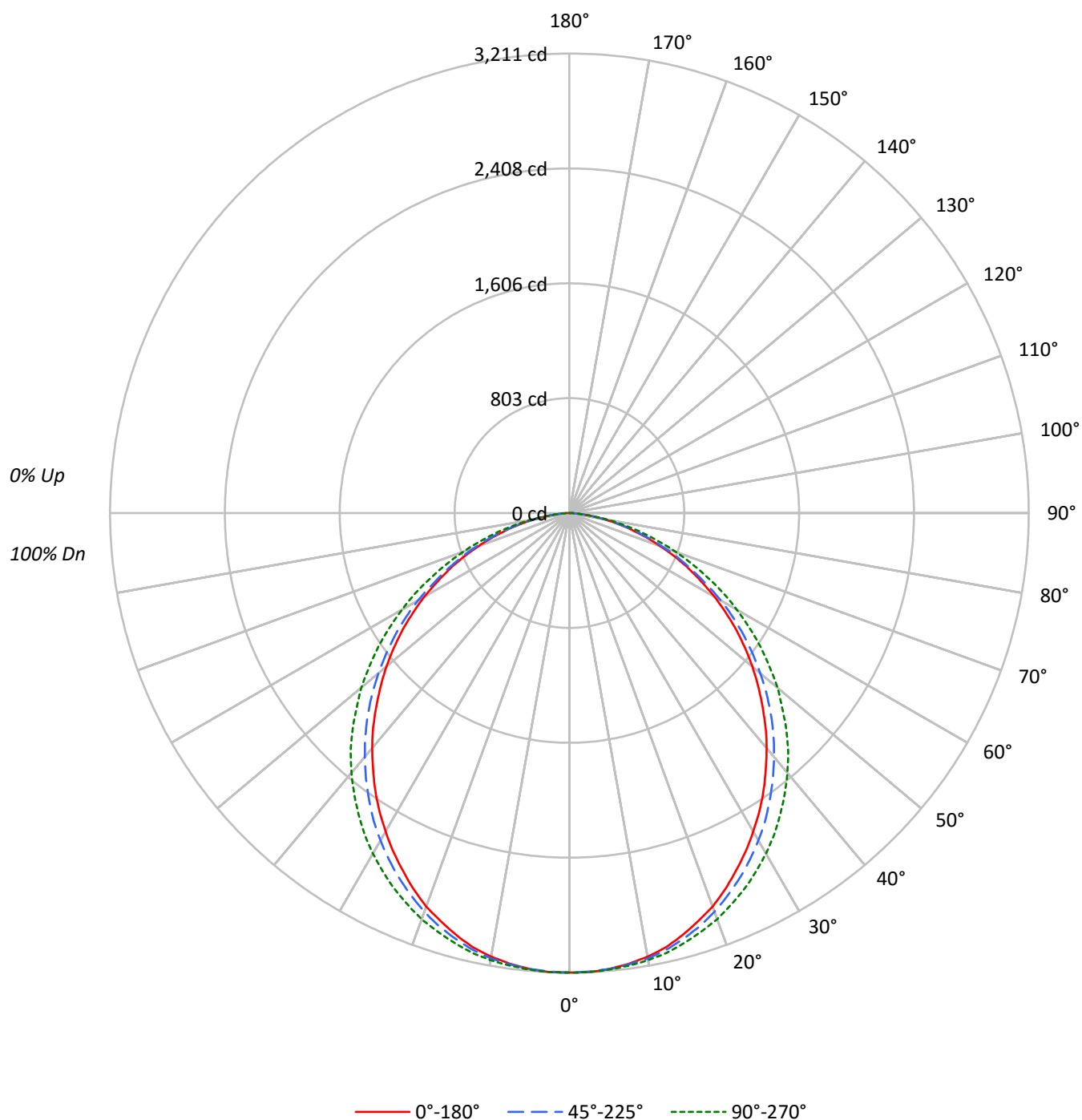
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P384046

CATALOG NUMBER: 24ID-85-L830-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384046

CATALOG NUMBER: 24ID-85-L830-CFR2

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	89		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	60	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4320	4320	4320
5°	4319	4319	4325
10°	4300	4317	4335
15°	4254	4289	4331
20°	4190	4245	4324
25°	4092	4180	4300
30°	3992	4104	4269
35°	3886	4011	4221
40°	3767	3909	4163
45°	3629	3790	4081
50°	3494	3645	3974
55°	3338	3487	3826
60°	3154	3292	3634
65°	2934	3029	3394
70°	2657	2757	3108
75°	2318	2406	2716
80°	1876	1908	2139
85°	1115	1246	1050



TEST NUMBER: P384046

CATALOG NUMBER: 24ID-85-L830-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	3.6
10°-20°	868.8	10.2
20°-30°	1299.6	15.3
30°-40°	1535.4	18.1
40°-50°	1549.3	18.3
50°-60°	1345.5	15.9
60°-70°	964.8	11.4
70°-80°	502.6	5.9
80°-90°	106.1	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°	2472.3	29.2
0°-40°	4007.7	47.3
0°-60°	6902.5	81.4
0°-90°	8476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3198	3194	3198	3198	3202	304
15°	3054	3058	3079	3100	3109	861
25°	2756	2773	2816	2871	2896	1270
35°	2366	2383	2442	2531	2570	1479
45°	1907	1928	1992	2094	2145	1473
55°	1423	1436	1486	1584	1631	1271
65°	922	917	951	1024	1066	911
75°	446	442	463	497	522	476
85°	72	81	81	72	68	103
90°	0	0	0	0	0	



TEST NUMBER: P384046

CATALOG NUMBER: 24ID-85-L830-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3210.8	3206.6	3206.6	3206.6	3210.8
5°	3198.1	3193.8	3198.1	3198.1	3202.3
7.5°	3176.8	3172.6	3181.1	3185.3	3189.6
10°	3147.1	3147.1	3159.9	3168.3	3172.6
12.5°	3108.9	3108.9	3125.9	3138.6	3147.1
15°	3053.7	3057.9	3079.2	3100.4	3108.9
17.5°	2990.0	3002.7	3028.2	3057.9	3066.4
20°	2926.3	2934.8	2964.5	3002.7	3019.7
22.5°	2845.6	2858.3	2892.3	2943.3	2960.2
25°	2756.4	2773.4	2815.8	2871.1	2896.5
27.5°	2667.2	2679.9	2730.9	2794.6	2824.3
30°	2569.5	2586.5	2641.7	2713.9	2747.9
32.5°	2471.8	2484.6	2548.3	2624.7	2662.9
35°	2365.6	2382.6	2442.1	2531.3	2569.5
37.5°	2255.2	2276.5	2335.9	2429.4	2471.8
40°	2144.8	2157.5	2225.5	2318.9	2369.9
42.5°	2030.1	2047.1	2110.8	2212.7	2263.7
45°	1907.0	1928.2	1991.9	2093.8	2144.8
47.5°	1788.0	1809.3	1868.7	1970.7	2017.4
50°	1669.1	1681.9	1741.3	1843.2	1898.5
52.5°	1546.0	1558.7	1613.9	1711.6	1762.6
55°	1422.8	1435.5	1486.5	1584.2	1630.9
57.5°	1295.4	1303.9	1354.8	1444.0	1490.7
60°	1172.2	1176.5	1223.2	1303.9	1350.6
62.5°	1040.5	1044.8	1078.8	1172.2	1214.7
65°	921.6	917.4	951.4	1023.6	1066.0
67.5°	798.5	798.5	828.2	891.9	925.9
70°	675.3	675.3	700.8	756.0	790.0
72.5°	560.6	560.6	581.9	624.3	649.8
75°	445.9	441.7	462.9	496.9	522.4
77.5°	339.8	339.8	348.3	378.0	395.0
80°	242.1	242.1	246.3	263.3	276.1
82.5°	152.9	152.9	152.9	161.4	165.6
85°	72.2	80.7	80.7	72.2	68.0
87.5°	34.0	34.0	29.7	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)