

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: P384034

Luminaire Tested: **24ID-70-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384034
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-70-L830-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

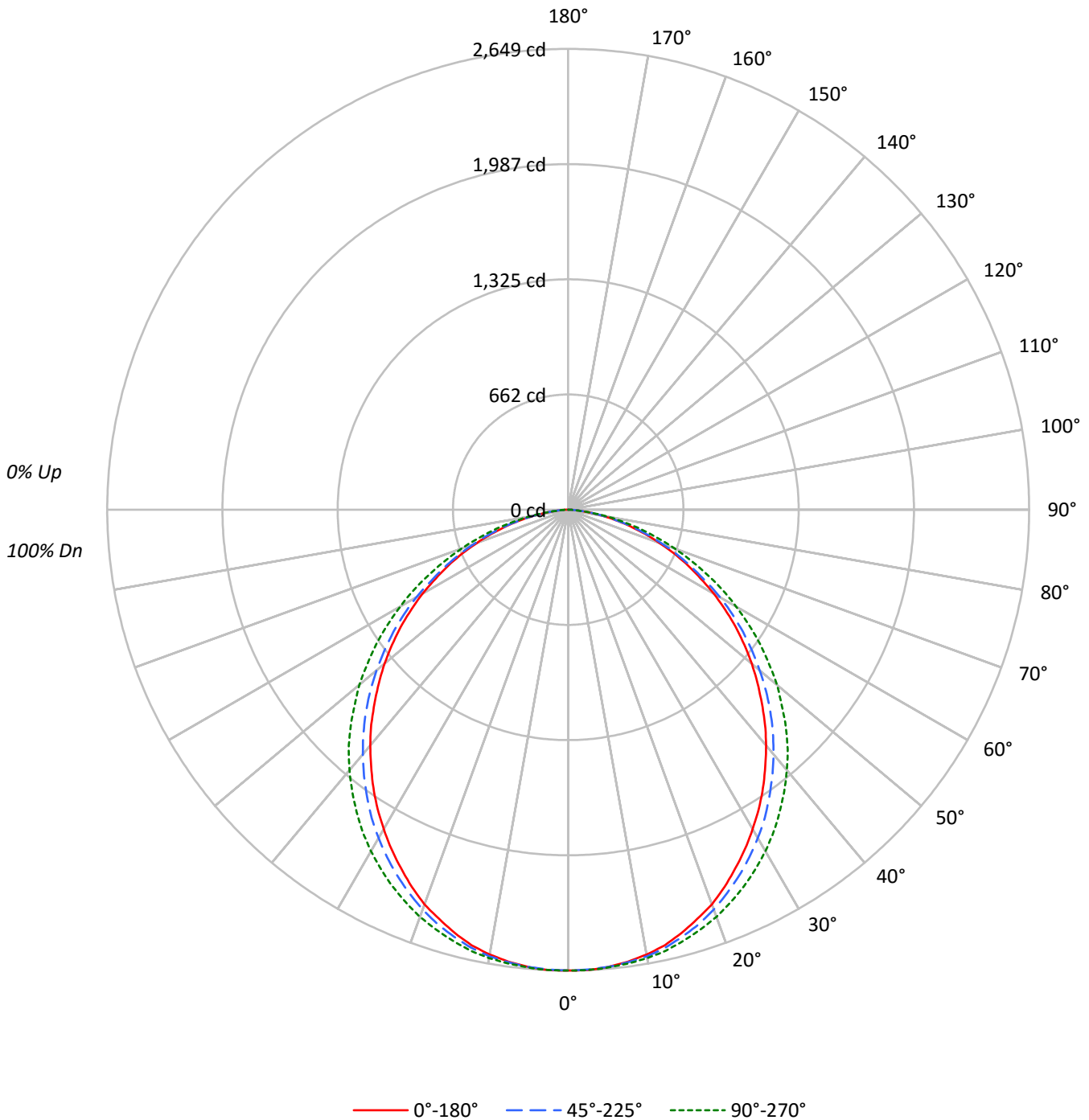
Lumens per Lamp: N/A
Luminaire Lumens: 6992.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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: P384034
CATALOG NUMBER: 24ID-70-L830-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384034

CATALOG NUMBER: 24ID-70-L830-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°	3564	3564	3564
5°	3563	3563	3568
10°	3547	3561	3576
15°	3509	3538	3572
20°	3456	3502	3567
25°	3376	3448	3547
30°	3293	3386	3522
35°	3205	3309	3482
40°	3108	3224	3434
45°	2993	3127	3367
50°	2882	3007	3278
55°	2753	2876	3156
60°	2602	2715	2998
65°	2421	2499	2800
70°	2192	2274	2564
75°	1913	1985	2240
80°	1547	1574	1764
85°	920	1028	866



TEST NUMBER: P384034

CATALOG NUMBER: 24ID-70-L830-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	3.6
10°-20°	716.7	10.2
20°-30°	1072.0	15.3
30°-40°	1266.6	18.1
40°-50°	1278.1	18.3
50°-60°	1109.9	15.9
60°-70°	795.9	11.4
70°-80°	414.6	5.9
80°-90°	87.5	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°	2039.4	29.2
0°-40°	3306.0	47.3
0°-60°	5694.0	81.4
0°-90°	6992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2638	2635	2638	2638	2642	250
15°	2519	2522	2540	2558	2565	710
25°	2274	2288	2323	2368	2389	1048
35°	1952	1966	2014	2088	2120	1220
45°	1573	1591	1643	1727	1769	1215
55°	1174	1184	1226	1307	1345	1048
65°	760	757	785	844	879	752
75°	368	364	382	410	431	392
85°	60	67	67	60	56	85
90°	0	0	0	0	0	



TEST NUMBER: P384034

CATALOG NUMBER: 24ID-70-L830-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2648.7	2648.7	2648.7	2648.7	2648.7
2.5°	2648.7	2645.2	2645.2	2645.2	2648.7
5°	2638.2	2634.6	2638.2	2638.2	2641.7
7.5°	2620.6	2617.1	2624.1	2627.6	2631.1
10°	2596.1	2596.1	2606.6	2613.6	2617.1
12.5°	2564.6	2564.6	2578.6	2589.1	2596.1
15°	2519.0	2522.5	2540.1	2557.6	2564.6
17.5°	2466.5	2477.0	2498.0	2522.5	2529.5
20°	2413.9	2420.9	2445.5	2477.0	2491.0
22.5°	2347.4	2357.9	2385.9	2427.9	2442.0
25°	2273.8	2287.8	2322.8	2368.4	2389.4
27.5°	2200.2	2210.7	2252.8	2305.3	2329.8
30°	2119.6	2133.6	2179.2	2238.7	2266.8
32.5°	2039.0	2049.6	2102.1	2165.2	2196.7
35°	1951.5	1965.5	2014.5	2088.1	2119.6
37.5°	1860.4	1877.9	1926.9	2004.0	2039.0
40°	1769.3	1779.8	1835.8	1912.9	1955.0
42.5°	1674.7	1688.7	1741.2	1825.3	1867.4
45°	1573.1	1590.6	1643.2	1727.2	1769.3
47.5°	1475.0	1492.5	1541.5	1625.6	1664.2
50°	1376.9	1387.4	1436.4	1520.5	1566.1
52.5°	1275.3	1285.8	1331.3	1411.9	1454.0
55°	1173.7	1184.2	1226.2	1306.8	1345.4
57.5°	1068.6	1075.6	1117.6	1191.2	1229.7
60°	967.0	970.5	1009.0	1075.6	1114.1
62.5°	858.4	861.9	889.9	967.0	1002.0
65°	760.3	756.8	784.8	844.3	879.4
67.5°	658.7	658.7	683.2	735.7	763.8
70°	557.1	557.1	578.1	623.6	651.7
72.5°	462.5	462.5	480.0	515.0	536.0
75°	367.9	364.4	381.9	409.9	430.9
77.5°	280.3	280.3	287.3	311.8	325.8
80°	199.7	199.7	203.2	217.2	227.7
82.5°	126.1	126.1	126.1	133.1	136.6
85°	59.6	66.6	66.6	59.6	56.1
87.5°	28.0	28.0	24.5	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)