

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: P384574

Luminaire Tested: **14ID-40-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-40-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

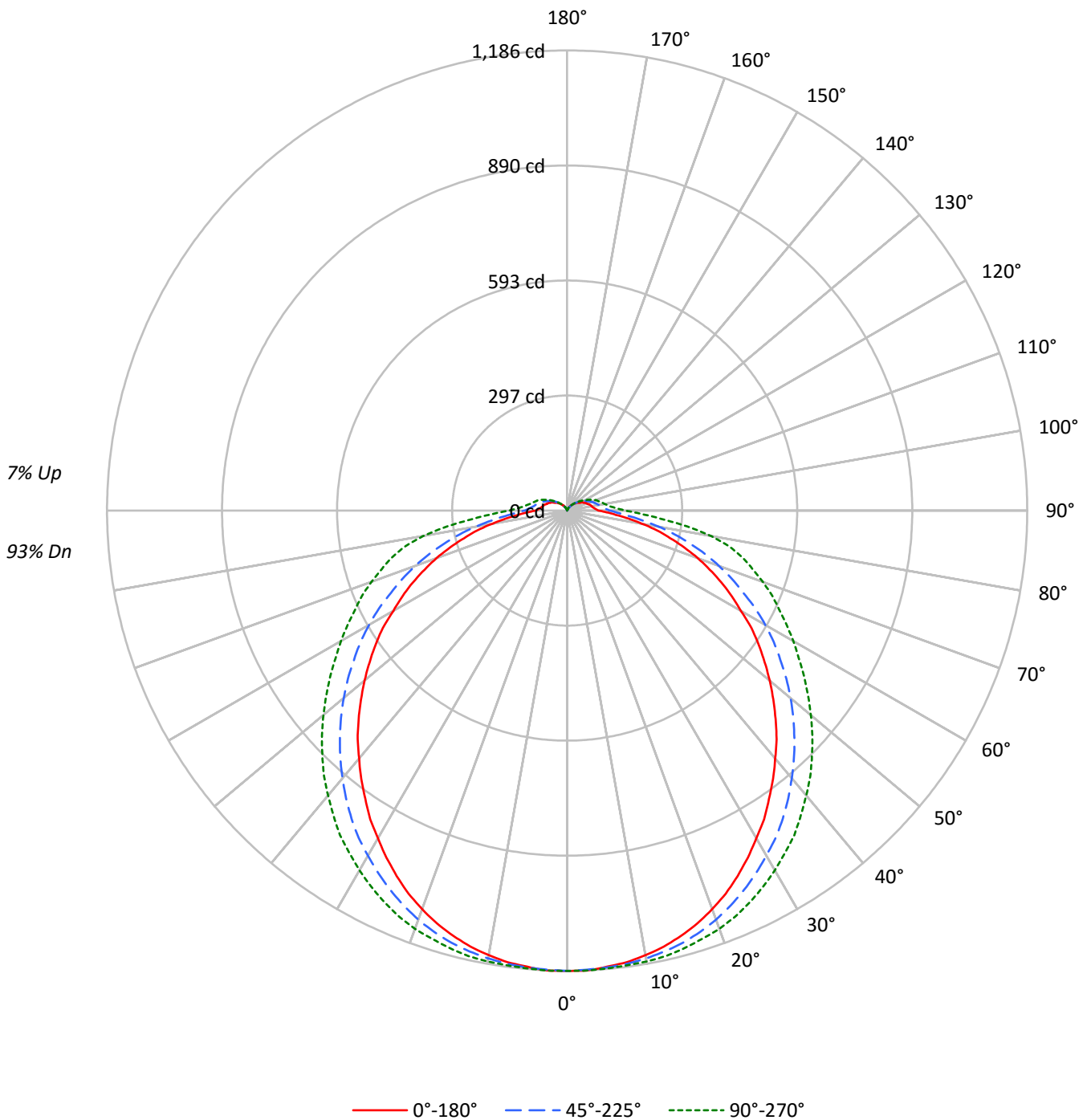
Lumens per Lamp: N/A
Luminaire Lumens: 4151.6 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 33.4
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: P384574
CATALOG NUMBER: 14ID-40-L830-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3193	3193	3193
5°	3171	3133	3131
10°	3145	3082	3089
15°	3109	3033	3049
20°	3061	2974	3011
25°	2999	2904	2962
30°	2925	2830	2907
35°	2854	2757	2854
40°	2785	2669	2783
45°	2722	2581	2717
50°	2654	2491	2645
55°	2595	2392	2577
60°	2514	2297	2527
65°	2464	2165	2497
70°	2405	2038	2501
75°	2322	1864	2517
80°	2251	1652	2415
85°	2275	1396	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	2.7
10°-20°	325.1	7.8
20°-30°	496.7	12.0
30°-40°	604.6	14.6
40°-50°	639.0	15.4
50°-60°	603.2	14.5
60°-70°	507.5	12.2
70°-80°	365.9	8.8
80°-90°	192.9	4.6
90°-100°	103.3	2.5
100°-110°	78.4	1.9
110°-120°	56.9	1.4
120°-130°	35.7	0.9
130°-140°	19.3	0.5
140°-150°	8.4	0.2
150°-160°	2.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	934.2	22.5
0°-40°	1538.8	37.1
0°-60°	2781.0	67.0
0°-90°	3847.2	92.7
90°-120°	238.6	5.7
90°-150°	302.1	7.3
90°-180°	304.0	7.3
0°-180°	4151.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1180	1180	1182	1182	1184	112
15°	1135	1139	1153	1162	1168	320
25°	1039	1052	1079	1104	1114	479
35°	907	928	969	1006	1021	568
45°	760	783	828	874	892	586
55°	602	629	671	720	745	538
65°	439	464	501	563	602	434
75°	275	298	327	391	468	292
85°	126	143	159	199	242	118
90°	81	95	110	130	149	46
95°	70	81	93	106	114	56
105°	60	66	74	83	87	63
115°	48	52	58	62	66	48
125°	35	35	41	41	44	32
135°	25	23	25	25	27	19
145°	14	12	12	12	14	9
155°	6	6	2	4	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384574

CATALOG NUMBER: 14ID-40-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.4	1186.4	1186.4	1186.4	1186.4
2.5°	1186.4	1184.3	1184.3	1184.3	1186.4
5°	1180.2	1180.2	1182.2	1182.2	1184.3
7.5°	1174.0	1174.0	1178.1	1180.2	1182.2
10°	1163.6	1165.7	1171.9	1176.0	1180.2
12.5°	1151.2	1153.3	1163.6	1171.9	1176.0
15°	1134.6	1138.8	1153.3	1161.5	1167.7
17.5°	1116.0	1122.2	1138.8	1151.2	1157.4
20°	1093.2	1101.5	1122.2	1138.8	1147.0
22.5°	1068.4	1076.6	1101.5	1122.2	1132.5
25°	1039.4	1051.8	1078.7	1103.6	1113.9
27.5°	1008.3	1022.8	1053.9	1082.9	1093.2
30°	975.2	991.8	1027.0	1058.0	1070.4
32.5°	944.1	960.7	1000.0	1033.2	1045.6
35°	906.9	927.6	969.0	1006.2	1020.7
37.5°	871.7	892.4	935.9	975.2	989.7
40°	834.4	855.1	900.7	944.1	958.6
42.5°	799.2	819.9	865.5	911.0	927.6
45°	759.9	782.6	828.2	873.7	892.4
47.5°	720.5	743.3	790.9	838.5	857.2
50°	681.2	706.0	751.6	799.2	819.9
52.5°	641.8	666.7	712.2	761.9	782.6
55°	602.5	629.4	670.8	720.5	745.4
57.5°	563.2	590.1	631.5	683.3	708.1
60°	517.6	548.7	590.1	643.9	672.9
62.5°	478.3	505.2	546.6	602.5	637.7
65°	438.9	463.8	501.1	563.2	602.5
67.5°	397.5	424.4	459.6	517.6	571.5
70°	358.2	381.0	416.2	476.2	536.3
72.5°	316.8	339.6	372.7	434.8	501.1
75°	275.4	298.1	327.1	391.3	467.9
77.5°	238.1	256.7	283.7	345.8	428.6
80°	196.7	215.3	240.2	296.1	376.8
82.5°	159.4	176.0	196.7	246.4	310.6
85°	126.3	142.9	159.4	198.8	242.2
87.5°	101.5	113.9	130.4	159.4	188.4
90°	80.7	95.2	109.7	130.4	149.1
92.5°	74.5	87.0	99.4	115.9	128.4
95°	70.4	80.7	93.2	105.6	113.9
97.5°	66.3	76.6	87.0	99.4	105.6
100°	64.2	72.5	82.8	93.2	97.3
102.5°	62.1	68.3	78.7	87.0	93.2
105°	60.0	66.3	74.5	82.8	87.0
107.5°	55.9	62.1	70.4	78.7	82.8
110°	53.8	58.0	66.3	72.5	78.7



TEST NUMBER: P384574

CATALOG NUMBER: 14ID-40-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.8	55.9	62.1	68.3	72.5
115°	47.6	51.8	58.0	62.1	66.3
117.5°	45.6	47.6	53.8	55.9	60.0
120°	41.4	43.5	49.7	51.8	53.8
122.5°	37.3	39.3	45.6	45.6	49.7
125°	35.2	35.2	41.4	41.4	43.5
127.5°	33.1	33.1	37.3	37.3	39.3
130°	29.0	29.0	33.1	33.1	33.1
132.5°	26.9	24.8	29.0	29.0	31.1
135°	24.8	22.8	24.8	24.8	26.9
137.5°	20.7	20.7	22.8	20.7	22.8
140°	18.6	16.6	18.6	18.6	20.7
142.5°	16.6	14.5	16.6	14.5	16.6
145°	14.5	12.4	12.4	12.4	14.5
147.5°	12.4	10.4	10.4	10.4	12.4
150°	10.4	8.3	8.3	8.3	10.4
152.5°	8.3	6.2	4.1	6.2	8.3
155°	6.2	6.2	2.1	4.1	6.2
157.5°	4.1	4.1	0.0	2.1	4.1
160°	2.1	2.1	0.0	2.1	2.1
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)