

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: P384698

Luminaire Tested: **24ID-60-L830-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384698  
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: 24ID-60-L830-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

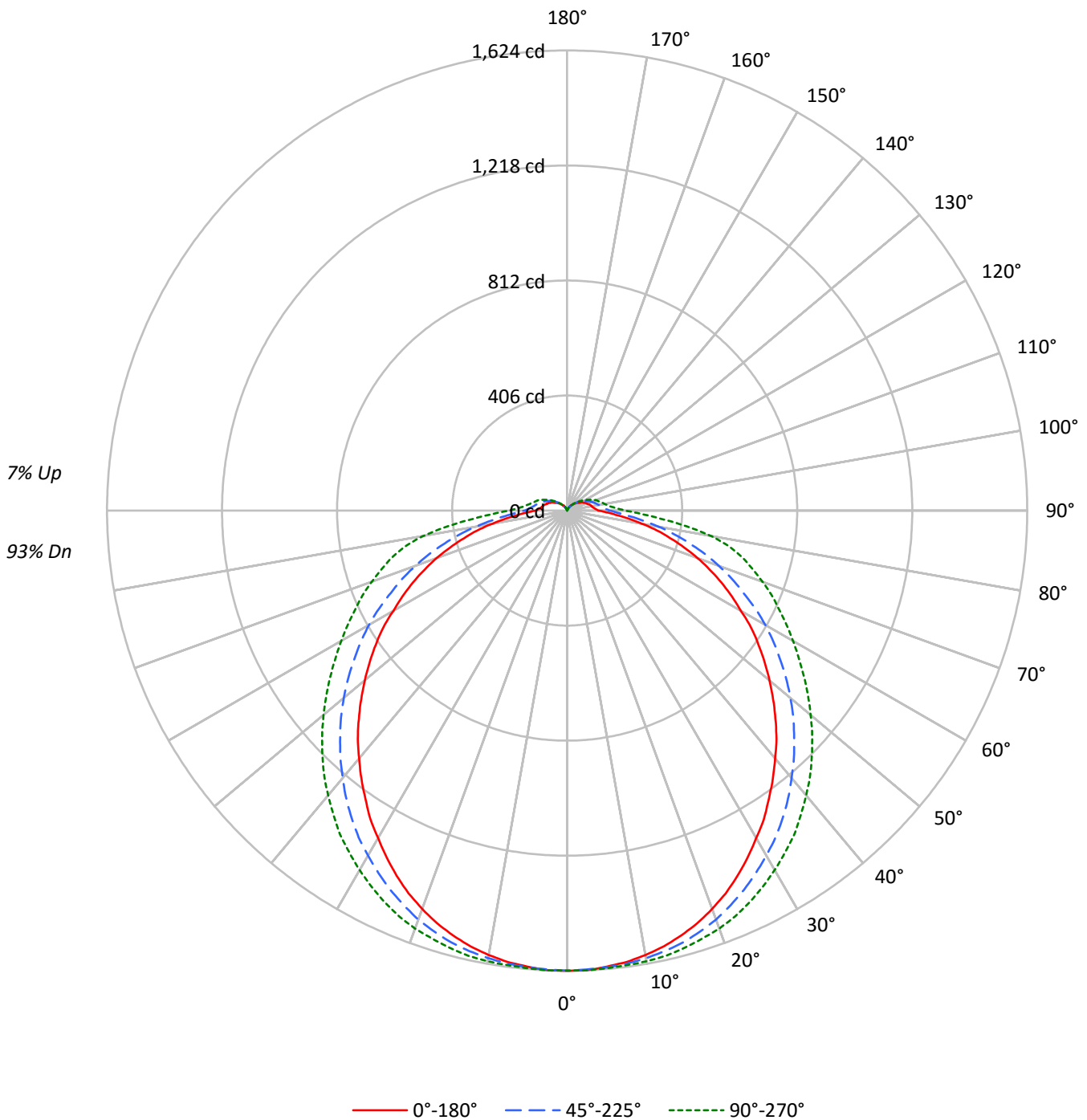
Lumens per Lamp: N/A  
Luminaire Lumens: 5681.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 54.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### 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°	2185	2185	2185
5°	2170	2160	2165
10°	2152	2141	2159
15°	2127	2123	2154
20°	2095	2098	2150
25°	2052	2064	2139
30°	2001	2028	2123
35°	1953	1993	2110
40°	1906	1948	2086
45°	1862	1904	2066
50°	1816	1859	2044
55°	1776	1811	2030
60°	1720	1767	2037
65°	1686	1700	2070
70°	1646	1642	2149
75°	1589	1557	2270
80°	1540	1454	2338
85°	1557	1339	2107



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	2.7
10°-20°	444.9	7.8
20°-30°	679.7	12.0
30°-40°	827.4	14.6
40°-50°	874.5	15.4
50°-60°	825.5	14.5
60°-70°	694.5	12.2
70°-80°	500.7	8.8
80°-90°	264.1	4.6
90°-100°	141.3	2.5
100°-110°	107.3	1.9
110°-120°	77.9	1.4
120°-130°	48.9	0.9
130°-140°	26.4	0.5
140°-150°	11.5	0.2
150°-160°	3.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1278.6	22.5
0°-40°	2106.0	37.1
0°-60°	3806.0	67.0
0°-90°	5265.2	92.7
90°-120°	326.5	5.7
90°-150°	413.4	7.3
90°-180°	417.0	7.3
0°-180°	5681.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1615	1615	1618	1618	1621	154
15°	1553	1558	1578	1590	1598	438
25°	1422	1440	1476	1510	1524	655
35°	1241	1270	1326	1377	1397	777
45°	1040	1071	1133	1196	1221	803
55°	825	861	918	986	1020	737
65°	601	635	686	771	825	594
75°	377	408	448	536	640	400
85°	173	196	218	272	332	162
90°	110	130	150	178	204	63
95°	96	110	128	144	156	77
105°	82	91	102	113	119	86
115°	65	71	79	85	91	65
125°	48	48	57	57	60	43
135°	34	31	34	34	37	26
145°	20	17	17	17	20	13
155°	8	8	3	6	8	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1623.7	1623.7	1623.7	1623.7	1623.7
2.5°	1623.7	1620.8	1620.8	1620.8	1623.7
5°	1615.2	1615.2	1618.0	1618.0	1620.8
7.5°	1606.7	1606.7	1612.3	1615.2	1618.0
10°	1592.5	1595.3	1603.8	1609.5	1615.2
12.5°	1575.5	1578.3	1592.5	1603.8	1609.5
15°	1552.8	1558.5	1578.3	1589.7	1598.2
17.5°	1527.3	1535.8	1558.5	1575.5	1584.0
20°	1496.1	1507.5	1535.8	1558.5	1569.8
22.5°	1462.1	1473.5	1507.5	1535.8	1550.0
25°	1422.5	1439.5	1476.3	1510.3	1524.5
27.5°	1380.0	1399.8	1442.3	1482.0	1496.1
30°	1334.6	1357.3	1405.5	1448.0	1465.0
32.5°	1292.1	1314.8	1368.6	1414.0	1431.0
35°	1241.1	1269.5	1326.1	1377.1	1397.0
37.5°	1192.9	1221.3	1280.8	1334.6	1354.5
40°	1141.9	1170.3	1232.6	1292.1	1312.0
42.5°	1093.8	1122.1	1184.4	1246.8	1269.5
45°	1039.9	1071.1	1133.4	1195.8	1221.3
47.5°	986.1	1017.3	1082.4	1147.6	1173.1
50°	932.3	966.3	1028.6	1093.8	1122.1
52.5°	878.4	912.4	974.8	1042.8	1071.1
55°	824.6	861.4	918.1	986.1	1020.1
57.5°	770.7	807.6	864.3	935.1	969.1
60°	708.4	750.9	807.6	881.3	920.9
62.5°	654.6	691.4	748.1	824.6	872.8
65°	600.7	634.7	685.7	770.7	824.6
67.5°	544.1	580.9	629.1	708.4	782.1
70°	490.2	521.4	569.6	651.7	733.9
72.5°	433.5	464.7	510.0	595.1	685.7
75°	376.9	408.0	447.7	535.6	640.4
77.5°	325.9	351.4	388.2	473.2	586.6
80°	269.2	294.7	328.7	405.2	515.7
82.5°	218.2	240.9	269.2	337.2	425.0
85°	172.9	195.5	218.2	272.0	331.5
87.5°	138.8	155.8	178.5	218.2	257.9
90°	110.5	130.3	150.2	178.5	204.0
92.5°	102.0	119.0	136.0	158.7	175.7
95°	96.3	110.5	127.5	144.5	155.8
97.5°	90.7	104.8	119.0	136.0	144.5
100°	87.8	99.2	113.3	127.5	133.2
102.5°	85.0	93.5	107.7	119.0	127.5
105°	82.2	90.7	102.0	113.3	119.0
107.5°	76.5	85.0	96.3	107.7	113.3
110°	73.7	79.3	90.7	99.2	107.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	70.8	76.5	85.0	93.5	99.2
115°	65.2	70.8	79.3	85.0	90.7
117.5°	62.3	65.2	73.7	76.5	82.2
120°	56.7	59.5	68.0	70.8	73.7
122.5°	51.0	53.8	62.3	62.3	68.0
125°	48.2	48.2	56.7	56.7	59.5
127.5°	45.3	45.3	51.0	51.0	53.8
130°	39.7	39.7	45.3	45.3	45.3
132.5°	36.8	34.0	39.7	39.7	42.5
135°	34.0	31.2	34.0	34.0	36.8
137.5°	28.3	28.3	31.2	28.3	31.2
140°	25.5	22.7	25.5	25.5	28.3
142.5°	22.7	19.8	22.7	19.8	22.7
145°	19.8	17.0	17.0	17.0	19.8
147.5°	17.0	14.2	14.2	14.2	17.0
150°	14.2	11.3	11.3	11.3	14.2
152.5°	11.3	8.5	5.7	8.5	11.3
155°	8.5	8.5	2.8	5.7	8.5
157.5°	5.7	5.7	0.0	2.8	5.7
160°	2.8	2.8	0.0	2.8	2.8
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

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