

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: P384686

Luminaire Tested: **24ID-45-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384686
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-45-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

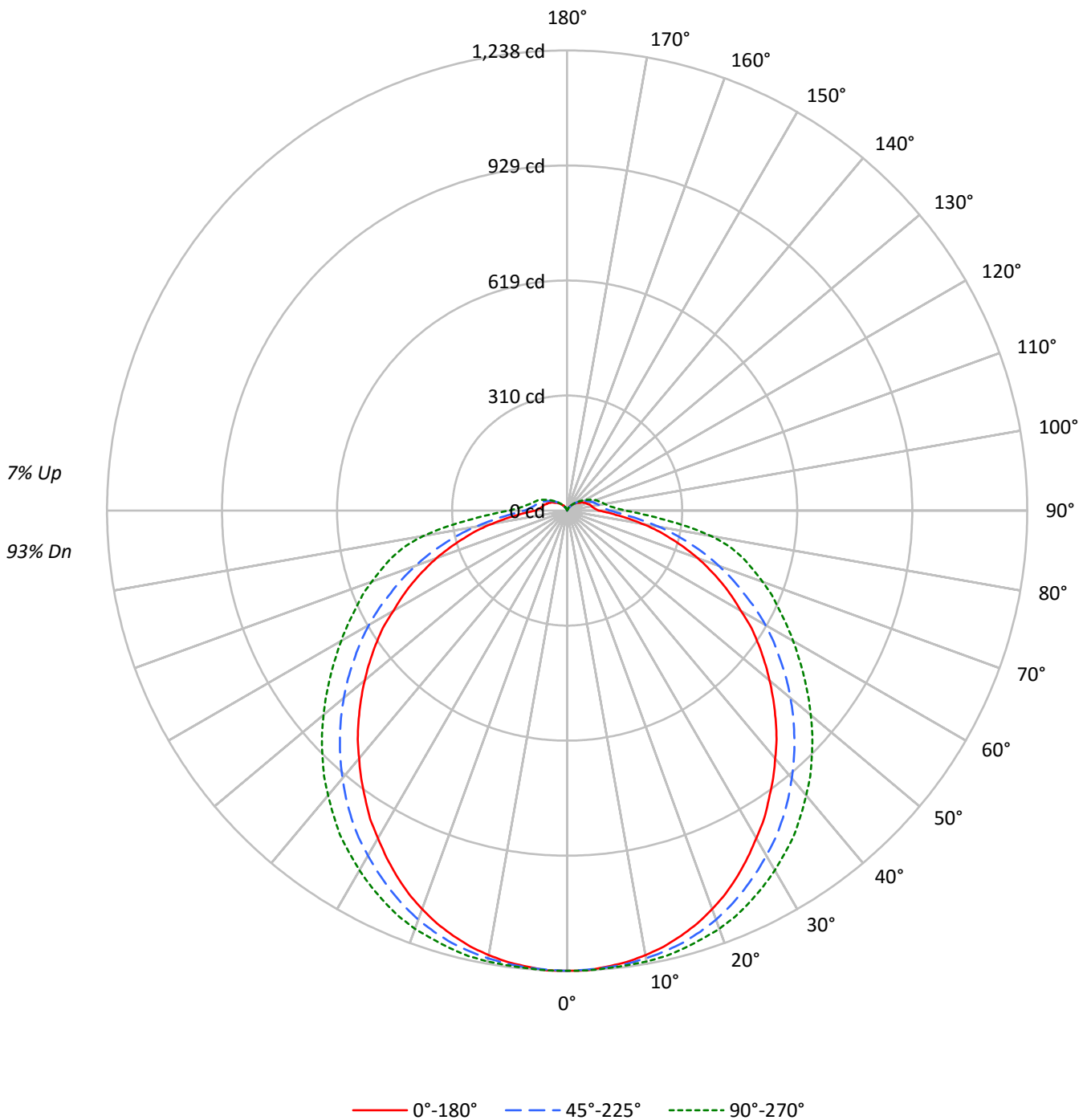
Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 40
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



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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°	1666	1666	1666
5°	1655	1647	1651
10°	1641	1633	1647
15°	1622	1619	1643
20°	1597	1600	1640
25°	1565	1574	1631
30°	1526	1547	1619
35°	1489	1520	1609
40°	1453	1486	1590
45°	1420	1452	1575
50°	1385	1418	1559
55°	1354	1381	1548
60°	1312	1348	1554
65°	1286	1296	1579
70°	1255	1252	1639
75°	1211	1187	1731
80°	1174	1109	1783
85°	1187	1021	1607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	2.7
10°-20°	339.3	7.8
20°-30°	518.4	12.0
30°-40°	631.0	14.6
40°-50°	666.9	15.4
50°-60°	629.5	14.5
60°-70°	529.6	12.2
70°-80°	381.8	8.8
80°-90°	201.4	4.6
90°-100°	107.8	2.5
100°-110°	81.9	1.9
110°-120°	59.4	1.4
120°-130°	37.3	0.9
130°-140°	20.2	0.5
140°-150°	8.8	0.2
150°-160°	2.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	975.0	22.5
0°-40°	1606.0	37.1
0°-60°	2902.4	67.0
0°-90°	4015.3	92.7
90°-120°	249.0	5.7
90°-150°	315.2	7.3
90°-180°	318.0	7.3
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1232	1232	1234	1234	1236	117
15°	1184	1188	1204	1212	1219	334
25°	1085	1098	1126	1152	1163	500
35°	946	968	1011	1050	1065	593
45°	793	817	864	912	931	612
55°	629	657	700	752	778	562
65°	458	484	523	588	629	453
75°	287	311	341	408	488	305
85°	132	149	166	208	253	123
90°	84	99	114	136	156	48
95°	74	84	97	110	119	59
105°	63	69	78	86	91	65
115°	50	54	60	65	69	50
125°	37	37	43	43	45	33
135°	26	24	26	26	28	20
145°	15	13	13	13	15	10
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.2	1238.2	1238.2	1238.2	1238.2
2.5°	1238.2	1236.1	1236.1	1236.1	1238.2
5°	1231.7	1231.7	1233.9	1233.9	1236.1
7.5°	1225.3	1225.3	1229.6	1231.7	1233.9
10°	1214.4	1216.6	1223.1	1227.4	1231.7
12.5°	1201.5	1203.6	1214.4	1223.1	1227.4
15°	1184.2	1188.5	1203.6	1212.3	1218.8
17.5°	1164.7	1171.2	1188.5	1201.5	1208.0
20°	1141.0	1149.6	1171.2	1188.5	1197.2
22.5°	1115.0	1123.7	1149.6	1171.2	1182.0
25°	1084.8	1097.8	1125.8	1151.8	1162.6
27.5°	1052.4	1067.5	1099.9	1130.2	1141.0
30°	1017.8	1035.1	1071.8	1104.2	1117.2
32.5°	985.4	1002.7	1043.7	1078.3	1091.3
35°	946.5	968.1	1011.3	1050.2	1065.3
37.5°	909.8	931.4	976.7	1017.8	1032.9
40°	870.9	892.5	940.0	985.4	1000.5
42.5°	834.1	855.7	903.3	950.8	968.1
45°	793.1	816.8	864.4	911.9	931.4
47.5°	752.0	775.8	825.5	875.2	894.6
50°	710.9	736.9	784.4	834.1	855.7
52.5°	669.9	695.8	743.4	795.2	816.8
55°	628.8	656.9	700.1	752.0	777.9
57.5°	587.8	615.9	659.1	713.1	739.0
60°	540.2	572.6	615.9	672.1	702.3
62.5°	499.2	527.3	570.5	628.8	665.6
65°	458.1	484.1	522.9	587.8	628.8
67.5°	414.9	443.0	479.7	540.2	596.4
70°	373.8	397.6	434.3	497.0	559.7
72.5°	330.6	354.4	389.0	453.8	522.9
75°	287.4	311.2	341.4	408.4	488.4
77.5°	248.5	268.0	296.0	360.9	447.3
80°	205.3	224.7	250.7	309.0	393.3
82.5°	166.4	183.7	205.3	257.2	324.1
85°	131.8	149.1	166.4	207.5	252.8
87.5°	105.9	118.9	136.1	166.4	196.6
90°	84.3	99.4	114.5	136.1	155.6
92.5°	77.8	90.8	103.7	121.0	134.0
95°	73.5	84.3	97.2	110.2	118.9
97.5°	69.2	80.0	90.8	103.7	110.2
100°	67.0	75.6	86.4	97.2	101.6
102.5°	64.8	71.3	82.1	90.8	97.2
105°	62.7	69.2	77.8	86.4	90.8
107.5°	58.3	64.8	73.5	82.1	86.4
110°	56.2	60.5	69.2	75.6	82.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.0	58.3	64.8	71.3	75.6
115°	49.7	54.0	60.5	64.8	69.2
117.5°	47.5	49.7	56.2	58.3	62.7
120°	43.2	45.4	51.9	54.0	56.2
122.5°	38.9	41.1	47.5	47.5	51.9
125°	36.7	36.7	43.2	43.2	45.4
127.5°	34.6	34.6	38.9	38.9	41.1
130°	30.3	30.3	34.6	34.6	34.6
132.5°	28.1	25.9	30.3	30.3	32.4
135°	25.9	23.8	25.9	25.9	28.1
137.5°	21.6	21.6	23.8	21.6	23.8
140°	19.4	17.3	19.4	19.4	21.6
142.5°	17.3	15.1	17.3	15.1	17.3
145°	15.1	13.0	13.0	13.0	15.1
147.5°	13.0	10.8	10.8	10.8	13.0
150°	10.8	8.6	8.6	8.6	10.8
152.5°	8.6	6.5	4.3	6.5	8.6
155°	6.5	6.5	2.2	4.3	6.5
157.5°	4.3	4.3	0.0	2.2	4.3
160°	2.2	2.2	0.0	2.2	2.2
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)