

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: P384178

Luminaire Tested: **24ID-40-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

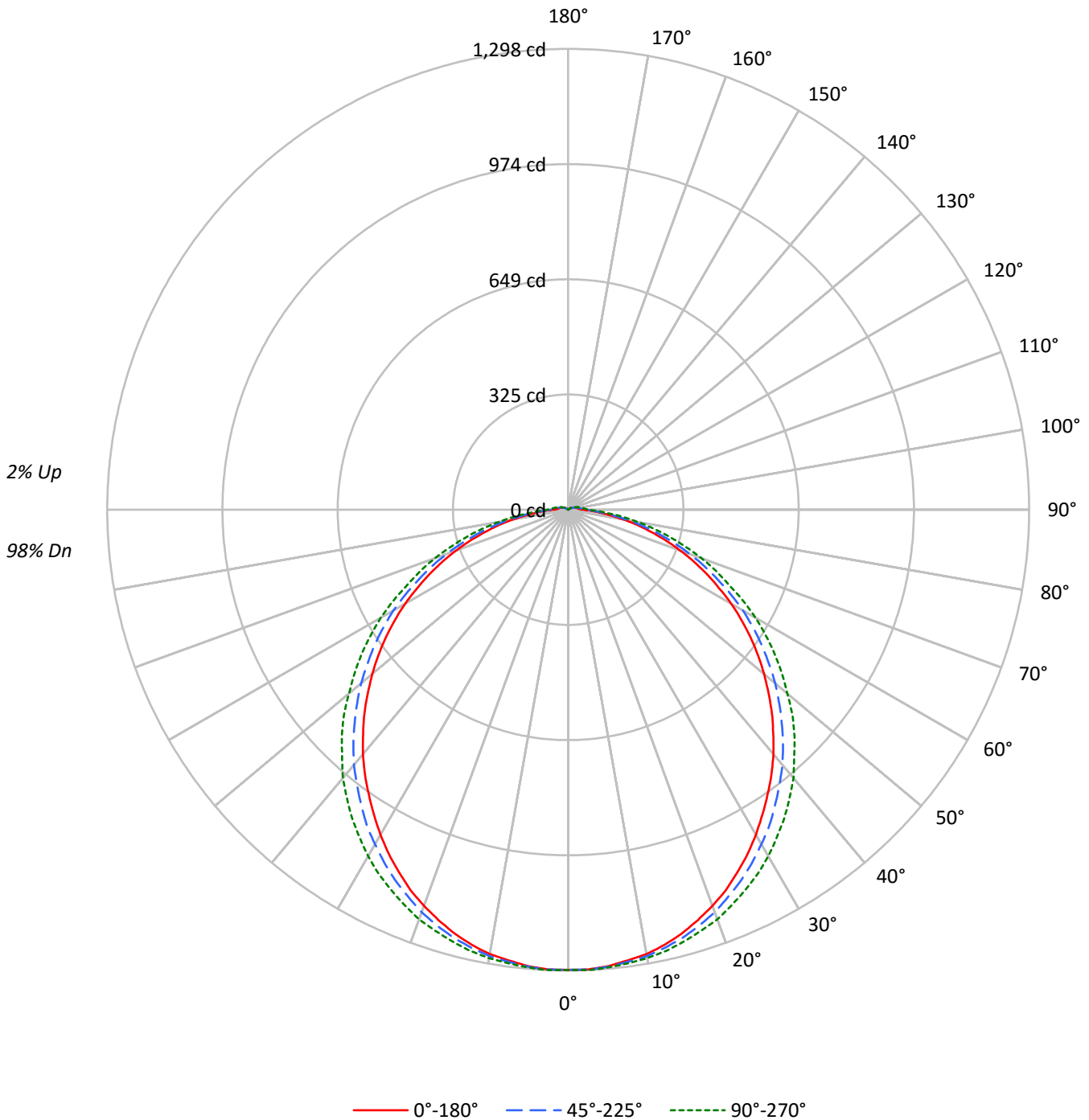
Lumens per Lamp: N/A
Luminaire Lumens: 3838.8 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 35.2
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	100	100	100	98		
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	87	85	83	87	85	83	81		
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	76	73	69	76	73	69	67		
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	60	55	50	60	55	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	54	48	44	54	48	44	41		
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	49	43	38	49	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	45	39	34	45	39	34	32		
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	38	32	27	38	32	27	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1744	1744	1744
5°	1740	1739	1742
10°	1730	1731	1739
15°	1712	1717	1735
20°	1687	1700	1732
25°	1657	1676	1720
30°	1622	1648	1710
35°	1585	1619	1693
40°	1552	1589	1675
45°	1513	1550	1646
50°	1471	1513	1607
55°	1428	1469	1573
60°	1380	1421	1529
65°	1317	1347	1456
70°	1245	1277	1408
75°	1164	1181	1331
80°	1079	1073	1244
85°	1044	998	1181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.2
10°-20°	351.9	9.2
20°-30°	531.3	13.8
30°-40°	636.6	16.6
40°-50°	658.1	17.1
50°-60°	596.0	15.5
60°-70°	461.2	12.0
70°-80°	283.3	7.4
80°-90°	112.6	2.9
90°-100°	41.1	1.1
100°-110°	25.2	0.7
110°-120°	13.0	0.3
120°-130°	5.5	0.1
130°-140°	0.4	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°	1005.9	26.2
0°-40°	1642.5	42.8
0°-60°	2896.6	75.5
0°-90°	3753.6	97.8
90°-120°	79.3	2.1
90°-150°	85.2	2.2
90°-180°	85.0	2.2
0°-180°	3838.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1290	1290	1292	1292	1294	123
15°	1236	1238	1248	1255	1259	348
25°	1127	1135	1152	1172	1181	519
35°	979	991	1016	1043	1061	613
45°	812	821	850	886	901	625
55°	627	640	666	695	710	560
65°	432	442	463	486	498	427
75°	241	253	265	282	296	257
85°	84	90	97	107	113	83
90°	39	45	49	54	58	23
95°	29	33	37	41	45	23
105°	21	21	23	25	27	23
115°	14	12	12	14	16	14
125°	8	6	4	6	8	7
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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°	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1296.2	1294.2	1296.2	1296.2	1298.1
5°	1290.3	1290.3	1292.3	1292.3	1294.2
7.5°	1280.6	1280.6	1284.5	1286.4	1288.4
10°	1270.9	1270.9	1276.7	1278.6	1282.5
12.5°	1255.3	1257.2	1263.1	1268.9	1272.8
15°	1235.8	1237.8	1247.5	1255.3	1259.2
17.5°	1212.5	1216.4	1228.0	1239.7	1243.6
20°	1187.2	1193.0	1206.6	1220.3	1228.0
22.5°	1159.9	1163.8	1179.4	1196.9	1204.7
25°	1126.8	1134.6	1152.1	1171.6	1181.3
27.5°	1093.8	1101.5	1121.0	1144.4	1156.0
30°	1056.8	1064.6	1087.9	1113.2	1126.8
32.5°	1017.9	1027.6	1054.8	1080.1	1093.8
35°	978.9	990.6	1015.9	1043.2	1060.7
37.5°	940.0	949.7	977.0	1006.2	1023.7
40°	899.1	908.9	938.1	967.3	986.7
42.5°	854.4	866.0	895.2	926.4	942.0
45°	811.6	821.3	850.5	885.5	901.1
47.5°	764.8	778.5	805.7	838.8	856.3
50°	720.1	731.8	761.0	792.1	805.7
52.5°	673.4	685.1	712.3	743.4	759.0
55°	626.7	640.3	665.6	694.8	710.4
57.5°	578.0	591.6	616.9	642.2	659.8
60°	531.3	544.9	568.3	593.6	609.2
62.5°	478.8	490.4	515.7	543.0	554.7
65°	432.1	441.8	463.2	486.5	498.2
67.5°	383.4	395.1	414.5	435.9	449.6
70°	334.7	348.4	363.9	383.4	399.0
72.5°	288.0	299.7	313.3	332.8	346.4
75°	241.3	253.0	264.7	282.2	295.8
77.5°	200.5	206.3	218.0	233.5	247.2
80°	155.7	163.5	173.2	188.8	198.5
82.5°	116.8	124.6	132.3	144.0	153.7
85°	83.7	89.5	97.3	107.0	112.9
87.5°	56.4	62.3	68.1	75.9	81.7
90°	38.9	44.8	48.7	54.5	58.4
92.5°	33.1	37.0	40.9	44.8	48.7
95°	29.2	33.1	37.0	40.9	44.8
97.5°	27.2	29.2	33.1	37.0	38.9
100°	25.3	27.2	29.2	33.1	35.0
102.5°	23.4	23.4	27.2	29.2	31.1
105°	21.4	21.4	23.4	25.3	27.2
107.5°	19.5	19.5	21.4	21.4	25.3
110°	17.5	15.6	17.5	17.5	21.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.6	13.6	15.6	15.6	17.5
115°	13.6	11.7	11.7	13.6	15.6
117.5°	11.7	9.7	9.7	9.7	13.6
120°	11.7	9.7	7.8	7.8	11.7
122.5°	9.7	7.8	5.8	7.8	9.7
125°	7.8	5.8	3.9	5.8	7.8
127.5°	5.8	5.8	1.9	3.9	5.8
130°	5.8	3.9	1.9	3.9	3.9
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)