

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: P384346

Luminaire Tested: **24ID-40-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

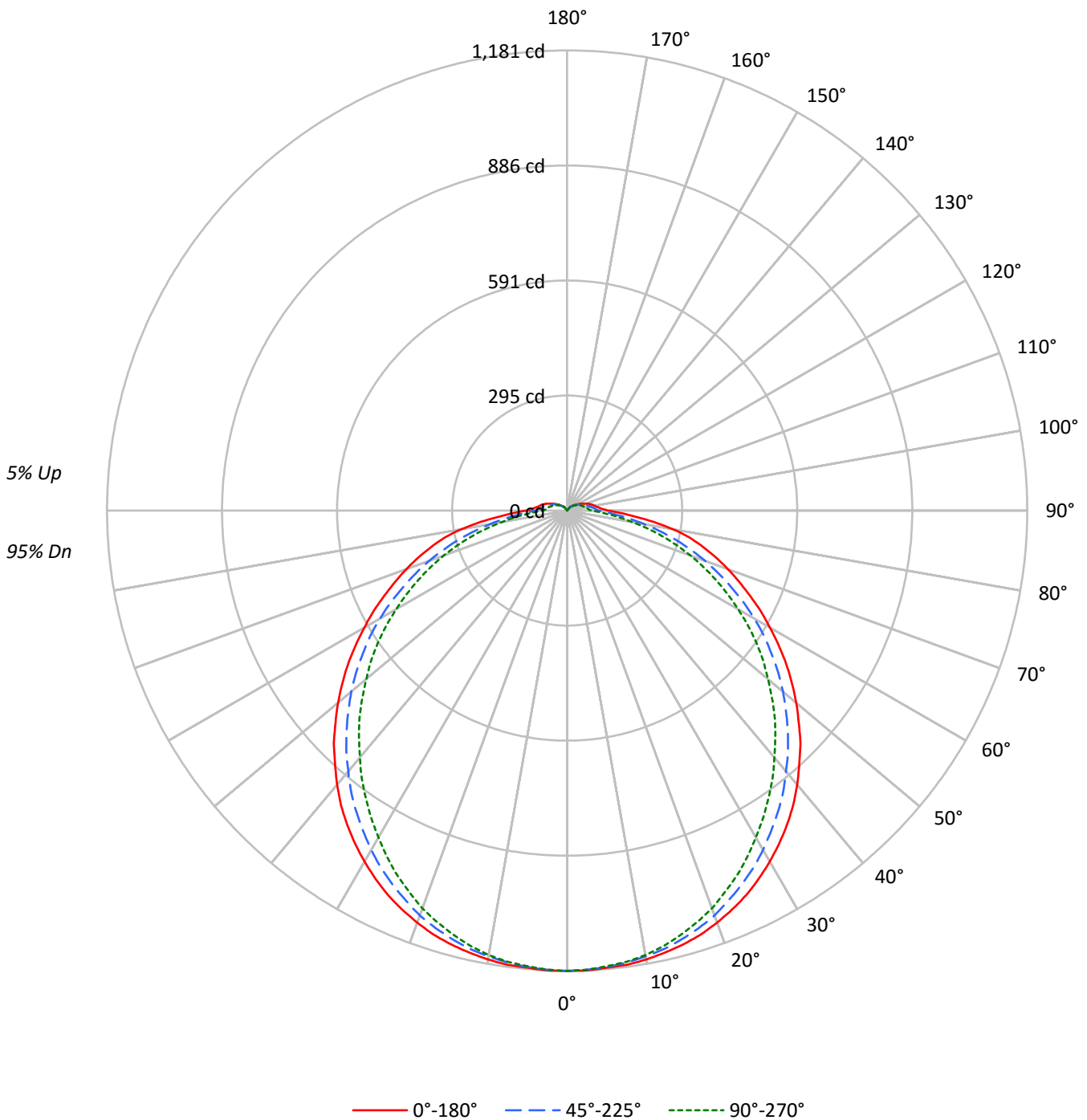
Lumens per Lamp: N/A
Luminaire Lumens: 3831.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1590	1590	1590
5°	1585	1576	1574
10°	1587	1563	1559
15°	1588	1550	1536
20°	1587	1534	1510
25°	1585	1511	1475
30°	1578	1486	1436
35°	1571	1459	1398
40°	1559	1429	1358
45°	1547	1399	1325
50°	1531	1369	1281
55°	1520	1333	1244
60°	1509	1295	1191
65°	1514	1242	1138
70°	1549	1193	1077
75°	1627	1126	997
80°	1733	1038	895
85°	1820	980	825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.9
10°-20°	321.5	8.4
20°-30°	488.3	12.7
30°-40°	589.8	15.4
40°-50°	617.4	16.1
50°-60°	572.9	15.0
60°-70°	464.0	12.1
70°-80°	313.1	8.2
80°-90°	151.3	3.9
90°-100°	76.1	2.0
100°-110°	55.3	1.4
110°-120°	37.0	1.0
120°-130°	21.4	0.6
130°-140°	10.8	0.3
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	921.6	24.1
0°-40°	1511.5	39.4
0°-60°	2701.7	70.5
0°-90°	3630.1	94.7
90°-120°	168.4	4.4
90°-150°	201.5	5.3
90°-180°	201.0	5.2
0°-180°	3831.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1178	1176	1176	1174	1174	112
15°	1152	1147	1139	1131	1127	326
25°	1088	1079	1060	1040	1032	502
35°	984	971	944	914	901	616
45°	847	831	800	768	754	652
55°	686	671	640	609	594	614
65°	518	499	464	439	422	514
75°	362	325	288	267	251	381
85°	174	151	128	116	104	164
90°	104	95	81	74	62	60
95°	83	77	70	62	54	65
105°	62	58	52	46	42	66
115°	42	39	39	33	33	42
125°	27	23	25	21	23	24
135°	16	14	14	14	16	12
145°	0	0	0	0	0	1
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°	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1181.4	1179.4	1179.4	1179.4	1179.4
5°	1177.5	1175.6	1175.6	1173.6	1173.6
7.5°	1175.6	1171.7	1169.8	1167.8	1167.8
10°	1169.8	1165.9	1162.0	1158.2	1158.2
12.5°	1162.0	1158.2	1152.4	1144.6	1144.6
15°	1152.4	1146.6	1138.8	1131.1	1127.2
17.5°	1140.8	1135.0	1123.4	1111.7	1107.9
20°	1125.3	1117.5	1105.9	1090.5	1086.6
22.5°	1107.9	1100.1	1082.7	1067.3	1059.5
25°	1088.5	1078.9	1059.5	1040.2	1032.5
27.5°	1065.3	1055.7	1034.4	1011.2	1001.5
30°	1040.2	1028.6	1005.4	980.3	968.7
32.5°	1013.1	999.6	974.5	947.4	935.8
35°	984.1	970.6	943.5	914.5	901.0
37.5°	953.2	939.7	910.7	879.7	866.2
40°	918.4	904.9	873.9	843.0	827.5
42.5°	881.7	870.1	839.1	806.3	790.8
45°	846.9	831.4	800.5	767.6	754.1
47.5°	806.3	794.7	761.8	728.9	713.5
50°	767.6	754.1	723.1	690.3	672.8
52.5°	727.0	715.4	682.5	649.6	634.2
55°	686.4	670.9	640.0	609.0	593.6
57.5°	643.8	630.3	599.4	570.4	551.0
60°	601.3	587.8	554.9	527.8	506.6
62.5°	560.7	545.2	510.4	481.4	464.0
65°	518.2	498.8	464.0	438.9	421.5
67.5°	477.6	454.4	419.6	396.4	379.0
70°	438.9	411.8	377.0	353.8	336.4
72.5°	400.2	367.4	330.6	309.4	293.9
75°	361.6	324.8	288.1	266.8	251.4
77.5°	322.9	280.4	243.6	226.2	210.7
80°	276.5	235.9	201.1	185.6	170.1
82.5°	224.3	191.4	162.4	146.9	135.3
85°	174.0	150.8	127.6	116.0	104.4
87.5°	135.3	117.9	100.5	90.9	81.2
90°	104.4	94.7	81.2	73.5	61.9
92.5°	90.9	83.1	73.5	65.7	56.1
95°	83.1	77.3	69.6	61.9	54.1
97.5°	75.4	71.5	63.8	58.0	50.3
100°	71.5	65.7	59.9	54.1	48.3
102.5°	67.7	61.9	56.1	50.3	46.4
105°	61.9	58.0	52.2	46.4	42.5
107.5°	58.0	52.2	48.3	42.5	40.6
110°	52.2	48.3	44.5	40.6	38.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	44.5	40.6	36.7	34.8
115°	42.5	38.7	38.7	32.9	32.9
117.5°	38.7	34.8	34.8	30.9	30.9
120°	32.9	30.9	30.9	27.1	27.1
122.5°	29.0	27.1	27.1	25.1	25.1
125°	27.1	23.2	25.1	21.3	23.2
127.5°	23.2	21.3	21.3	19.3	21.3
130°	19.3	17.4	17.4	17.4	19.3
132.5°	17.4	15.5	15.5	15.5	17.4
135°	15.5	13.5	13.5	13.5	15.5
137.5°	13.5	11.6	9.7	11.6	13.5
140°	11.6	9.7	7.7	9.7	11.6
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)