

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: P384614

Luminaire Tested: **22ID-20-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384614
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: 22ID-20-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

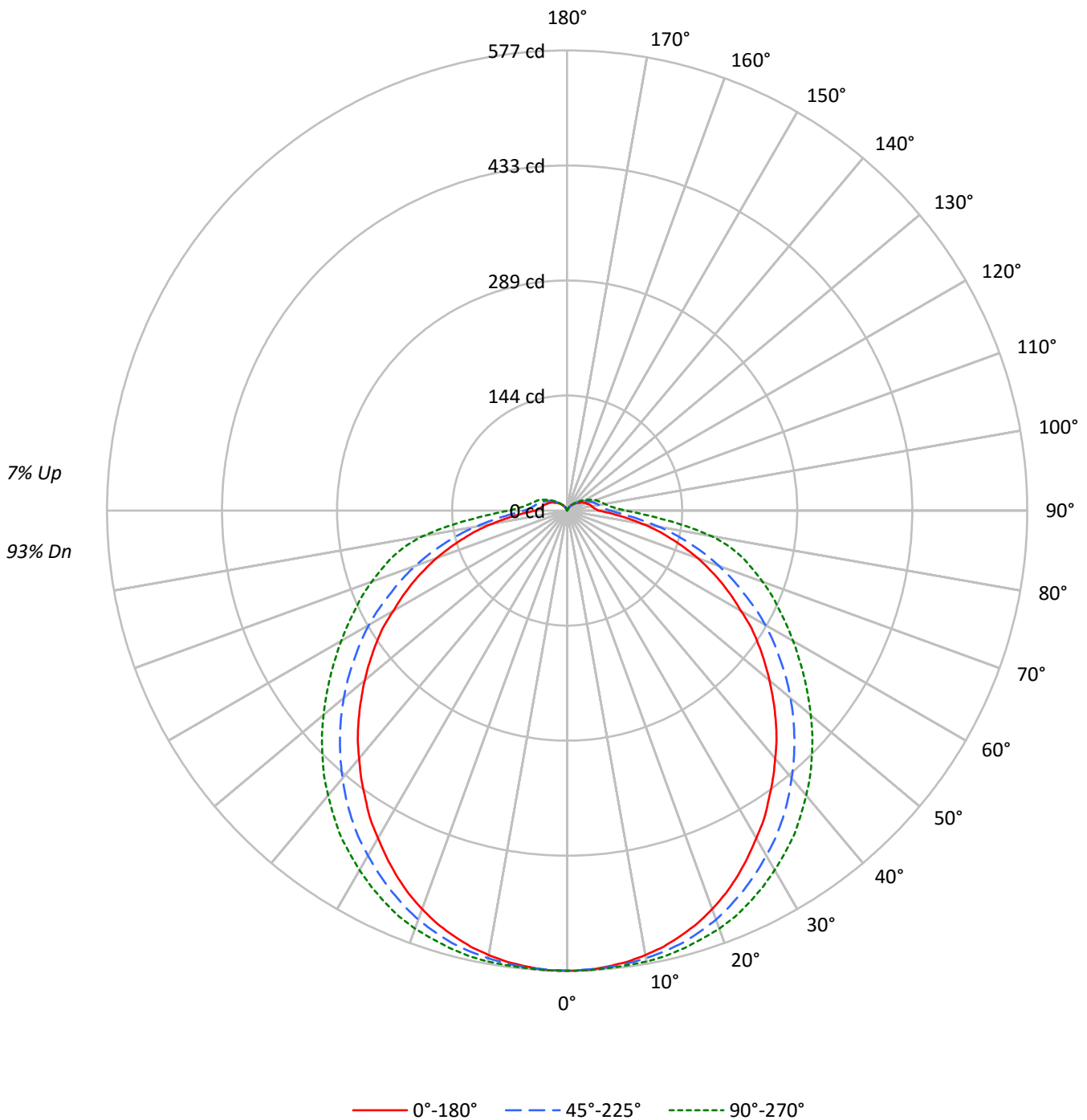
Lumens per Lamp: N/A
Luminaire Lumens: 2019.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): 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°	1553	1553	1553
5°	1534	1530	1539
10°	1513	1510	1535
15°	1487	1492	1531
20°	1456	1469	1528
25°	1418	1439	1520
30°	1375	1408	1509
35°	1332	1378	1499
40°	1290	1340	1482
45°	1250	1303	1468
50°	1207	1264	1453
55°	1166	1222	1443
60°	1114	1183	1448
65°	1072	1125	1471
70°	1020	1072	1527
75°	949	997	1614
80°	868	904	1662
85°	781	792	1498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	2.7
10°-20°	158.1	7.8
20°-30°	241.5	12.0
30°-40°	294.0	14.6
40°-50°	310.8	15.4
50°-60°	293.3	14.5
60°-70°	246.8	12.2
70°-80°	177.9	8.8
80°-90°	93.8	4.6
90°-100°	50.2	2.5
100°-110°	38.1	1.9
110°-120°	27.7	1.4
120°-130°	17.4	0.9
130°-140°	9.4	0.5
140°-150°	4.1	0.2
150°-160°	1.1	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	454.3	22.5
0°-40°	748.4	37.1
0°-60°	1352.5	67.0
0°-90°	1871.1	92.7
90°-120°	116.1	5.7
90°-150°	146.9	7.3
90°-180°	148.0	7.3
0°-180°	2019.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	574	574	575	575	576	55
15°	552	554	561	565	568	156
25°	506	512	525	537	542	233
35°	441	451	471	489	496	276
45°	370	381	403	425	434	285
55°	293	306	326	350	362	262
65°	214	226	244	274	293	211
75°	134	145	159	190	228	142
85°	61	70	78	97	118	58
90°	39	46	53	63	72	23
95°	34	39	45	51	55	27
105°	29	32	36	40	42	31
115°	23	25	28	30	32	23
125°	17	17	20	20	21	15
135°	12	11	12	12	13	9
145°	7	6	6	6	7	4
155°	3	3	1	2	3	1
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°	577.0	577.0	577.0	577.0	577.0
2.5°	577.0	576.0	576.0	576.0	577.0
5°	574.0	574.0	575.0	575.0	576.0
7.5°	570.9	570.9	573.0	574.0	575.0
10°	565.9	566.9	569.9	572.0	574.0
12.5°	559.9	560.9	565.9	569.9	572.0
15°	551.8	553.8	560.9	564.9	567.9
17.5°	542.8	545.8	553.8	559.9	562.9
20°	531.7	535.7	545.8	553.8	557.9
22.5°	519.6	523.6	535.7	545.8	550.8
25°	505.5	511.5	524.6	536.7	541.7
27.5°	490.4	497.4	512.5	526.6	531.7
30°	474.3	482.3	499.5	514.6	520.6
32.5°	459.2	467.2	486.4	502.5	508.5
35°	441.0	451.1	471.3	489.4	496.4
37.5°	423.9	434.0	455.1	474.3	481.3
40°	405.8	415.9	438.0	459.2	466.2
42.5°	388.7	398.8	420.9	443.1	451.1
45°	369.6	380.6	402.8	424.9	434.0
47.5°	350.4	361.5	384.7	407.8	416.9
50°	331.3	343.4	365.5	388.7	398.8
52.5°	312.2	324.2	346.4	370.6	380.6
55°	293.0	306.1	326.3	350.4	362.5
57.5°	273.9	287.0	307.1	332.3	344.4
60°	251.7	266.8	287.0	313.2	327.3
62.5°	232.6	245.7	265.8	293.0	310.1
65°	213.5	225.6	243.7	273.9	293.0
67.5°	193.3	206.4	223.5	251.7	277.9
70°	174.2	185.3	202.4	231.6	260.8
72.5°	154.1	165.1	181.3	211.5	243.7
75°	133.9	145.0	159.1	190.3	227.6
77.5°	115.8	124.9	138.0	168.2	208.4
80°	95.7	104.7	116.8	144.0	183.3
82.5°	77.5	85.6	95.7	119.8	151.0
85°	61.4	69.5	77.5	96.7	117.8
87.5°	49.3	55.4	63.4	77.5	91.6
90°	39.3	46.3	53.4	63.4	72.5
92.5°	36.3	42.3	48.3	56.4	62.4
95°	34.2	39.3	45.3	51.4	55.4
97.5°	32.2	37.3	42.3	48.3	51.4
100°	31.2	35.2	40.3	45.3	47.3
102.5°	30.2	33.2	38.3	42.3	45.3
105°	29.2	32.2	36.3	40.3	42.3
107.5°	27.2	30.2	34.2	38.3	40.3
110°	26.2	28.2	32.2	35.2	38.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.2	27.2	30.2	33.2	35.2
115°	23.2	25.2	28.2	30.2	32.2
117.5°	22.2	23.2	26.2	27.2	29.2
120°	20.1	21.1	24.2	25.2	26.2
122.5°	18.1	19.1	22.2	22.2	24.2
125°	17.1	17.1	20.1	20.1	21.1
127.5°	16.1	16.1	18.1	18.1	19.1
130°	14.1	14.1	16.1	16.1	16.1
132.5°	13.1	12.1	14.1	14.1	15.1
135°	12.1	11.1	12.1	12.1	13.1
137.5°	10.1	10.1	11.1	10.1	11.1
140°	9.1	8.1	9.1	9.1	10.1
142.5°	8.1	7.0	8.1	7.0	8.1
145°	7.0	6.0	6.0	6.0	7.0
147.5°	6.0	5.0	5.0	5.0	6.0
150°	5.0	4.0	4.0	4.0	5.0
152.5°	4.0	3.0	2.0	3.0	4.0
155°	3.0	3.0	1.0	2.0	3.0
157.5°	2.0	2.0	0.0	1.0	2.0
160°	1.0	1.0	0.0	1.0	1.0
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)