

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: P384010

Luminaire Tested: **24ID-40-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-40-L830-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

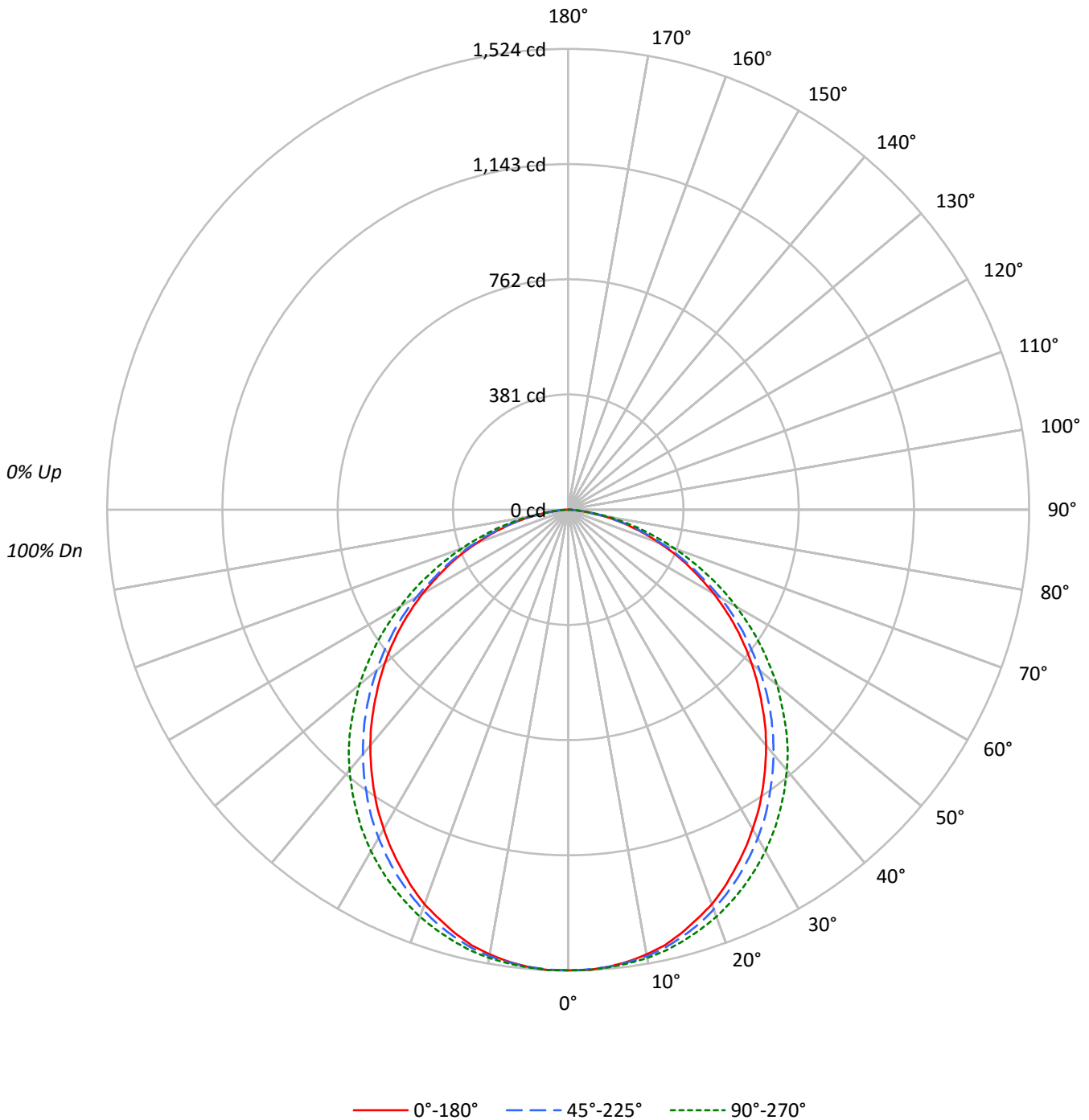
Lumens per Lamp: N/A  
Luminaire Lumens: 4022.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2050	2050	2050
5°	2050	2050	2052
10°	2040	2049	2057
15°	2018	2035	2055
20°	1988	2014	2052
25°	1942	1984	2041
30°	1894	1947	2026
35°	1844	1903	2003
40°	1788	1855	1975
45°	1722	1799	1936
50°	1658	1730	1886
55°	1584	1655	1815
60°	1497	1562	1725
65°	1392	1437	1610
70°	1260	1308	1475
75°	1100	1142	1289
80°	890	906	1015
85°	530	591	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	3.6
10°-20°	412.2	10.2
20°-30°	616.7	15.3
30°-40°	728.6	18.1
40°-50°	735.2	18.3
50°-60°	638.5	15.9
60°-70°	457.8	11.4
70°-80°	238.5	5.9
80°-90°	50.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1173.1	29.2
0°-40°	1901.7	47.3
0°-60°	3275.4	81.4
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1518	1516	1518	1518	1520	144
15°	1449	1451	1461	1471	1475	408
25°	1308	1316	1336	1362	1374	603
35°	1122	1131	1159	1201	1219	702
45°	905	915	945	994	1018	699
55°	675	681	705	752	774	603
65°	437	435	451	486	506	432
75°	212	210	220	236	248	226
85°	34	38	38	34	32	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1523.6	1523.6	1523.6	1523.6	1523.6
2.5°	1523.6	1521.6	1521.6	1521.6	1523.6
5°	1517.5	1515.5	1517.5	1517.5	1519.6
7.5°	1507.5	1505.4	1509.5	1511.5	1513.5
10°	1493.4	1493.4	1499.4	1503.4	1505.4
12.5°	1475.2	1475.2	1483.3	1489.3	1493.4
15°	1449.0	1451.0	1461.1	1471.2	1475.2
17.5°	1418.8	1424.8	1436.9	1451.0	1455.1
20°	1388.6	1392.6	1406.7	1424.8	1432.9
22.5°	1350.3	1356.3	1372.4	1396.6	1404.7
25°	1307.9	1316.0	1336.2	1362.4	1374.5
27.5°	1265.6	1271.7	1295.9	1326.1	1340.2
30°	1219.3	1227.3	1253.5	1287.8	1303.9
32.5°	1172.9	1179.0	1209.2	1245.5	1263.6
35°	1122.5	1130.6	1158.8	1201.1	1219.3
37.5°	1070.1	1080.2	1108.4	1152.8	1172.9
40°	1017.7	1023.8	1056.0	1100.4	1124.6
42.5°	963.3	971.4	1001.6	1050.0	1074.2
45°	904.9	915.0	945.2	993.6	1017.7
47.5°	848.5	858.5	886.7	935.1	957.3
50°	792.0	798.1	826.3	874.7	900.9
52.5°	733.6	739.6	765.8	812.2	836.4
55°	675.1	681.2	705.4	751.7	773.9
57.5°	614.7	618.7	642.9	685.2	707.4
60°	556.2	558.2	580.4	618.7	640.9
62.5°	493.8	495.8	511.9	556.2	576.4
65°	437.3	435.3	451.4	485.7	505.8
67.5°	378.9	378.9	393.0	423.2	439.3
70°	320.4	320.4	332.5	358.7	374.9
72.5°	266.0	266.0	276.1	296.3	308.3
75°	211.6	209.6	219.7	235.8	247.9
77.5°	161.2	161.2	165.3	179.4	187.4
80°	114.9	114.9	116.9	125.0	131.0
82.5°	72.6	72.6	72.6	76.6	78.6
85°	34.3	38.3	38.3	34.3	32.2
87.5°	16.1	16.1	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)