

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: P383960

Luminaire Tested: **22ID-40-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383960  
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: 22ID-40-L840-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

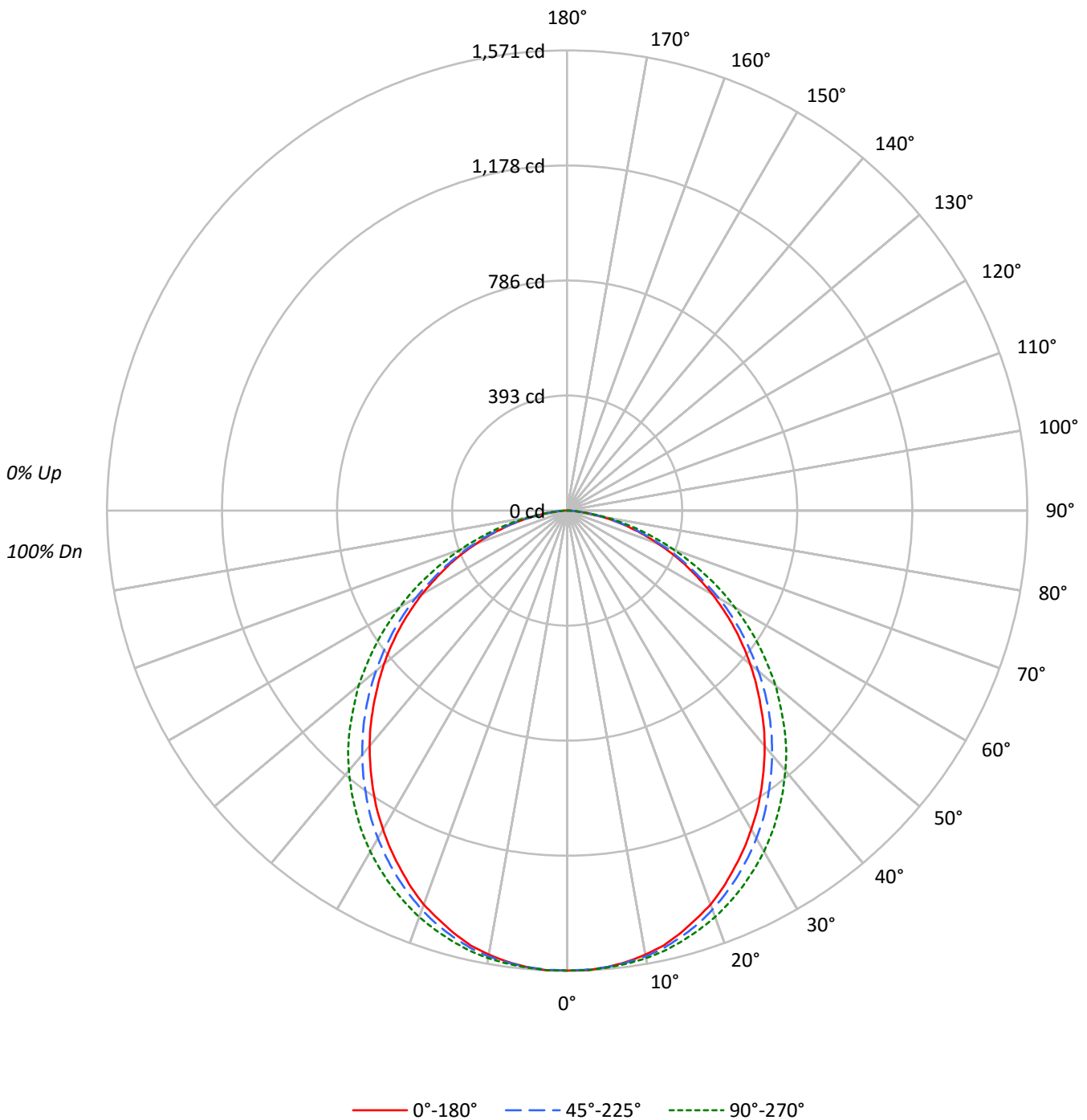
Lumens per Lamp: N/A  
Luminaire Lumens: 4146.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.7  
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



TEST NUMBER: P383960  
CATALOG NUMBER: 22ID-40-L840-CFR2

### Luminous Intensity Polar Plot





TEST NUMBER: P383960

CATALOG NUMBER: 22ID-40-L840-CFR2

**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°	4226	4226	4226
5°	4226	4226	4231
10°	4206	4223	4241
15°	4161	4196	4237
20°	4099	4153	4230
25°	4003	4090	4207
30°	3906	4015	4176
35°	3801	3924	4129
40°	3685	3824	4072
45°	3550	3708	3992
50°	3418	3566	3888
55°	3265	3411	3742
60°	3086	3220	3555
65°	2870	2963	3320
70°	2599	2697	3040
75°	2268	2354	2656
80°	1835	1867	2092
85°	1090	1220	1025



TEST NUMBER: P383960

CATALOG NUMBER: 22ID-40-L840-CFR2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.6
10°-20°	425.0	10.2
20°-30°	635.7	15.3
30°-40°	751.0	18.1
40°-50°	757.8	18.3
50°-60°	658.1	15.9
60°-70°	471.9	11.4
70°-80°	245.9	5.9
80°-90°	51.9	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°	1209.3	29.2
0°-40°	1960.4	47.3
0°-60°	3376.3	81.4
0°-90°	4146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1564	1562	1564	1564	1566	149
15°	1494	1496	1506	1516	1521	421
25°	1348	1357	1377	1404	1417	621
35°	1157	1166	1194	1238	1257	723
45°	933	943	974	1024	1049	720
55°	696	702	727	775	798	622
65°	451	449	465	501	521	446
75°	218	216	226	243	256	233
85°	35	40	40	35	33	51
90°	0	0	0	0	0	



TEST NUMBER: P383960

CATALOG NUMBER: 22ID-40-L840-CFR2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1570.6	1570.6	1570.6	1570.6	1570.6
2.5°	1570.6	1568.5	1568.5	1568.5	1570.6
5°	1564.3	1562.2	1564.3	1564.3	1566.4
7.5°	1553.9	1551.9	1556.0	1558.1	1560.2
10°	1539.4	1539.4	1545.6	1549.8	1551.9
12.5°	1520.7	1520.7	1529.0	1535.2	1539.4
15°	1493.7	1495.8	1506.2	1516.5	1520.7
17.5°	1462.5	1468.8	1481.2	1495.8	1499.9
20°	1431.4	1435.5	1450.1	1468.8	1477.1
22.5°	1391.9	1398.1	1414.8	1439.7	1448.0
25°	1348.3	1356.6	1377.4	1404.4	1416.8
27.5°	1304.6	1310.9	1335.8	1367.0	1381.5
30°	1256.9	1265.2	1292.2	1327.5	1344.1
32.5°	1209.1	1215.3	1246.5	1283.9	1302.6
35°	1157.1	1165.5	1194.5	1238.2	1256.9
37.5°	1103.1	1113.5	1142.6	1188.3	1209.1
40°	1049.1	1055.3	1088.6	1134.3	1159.2
42.5°	993.0	1001.3	1032.5	1082.4	1107.3
45°	932.8	943.2	974.3	1024.2	1049.1
47.5°	874.6	885.0	914.1	963.9	986.8
50°	816.4	822.7	851.8	901.6	928.6
52.5°	756.2	762.4	789.4	837.2	862.1
55°	695.9	702.2	727.1	774.9	797.7
57.5°	633.6	637.8	662.7	706.3	729.2
60°	573.4	575.5	598.3	637.8	660.6
62.5°	509.0	511.1	527.7	573.4	594.2
65°	450.8	448.7	465.4	500.7	521.4
67.5°	390.6	390.6	405.1	436.3	452.9
70°	330.3	330.3	342.8	369.8	386.4
72.5°	274.2	274.2	284.6	305.4	317.9
75°	218.1	216.1	226.4	243.1	255.5
77.5°	166.2	166.2	170.4	184.9	193.2
80°	118.4	118.4	120.5	128.8	135.0
82.5°	74.8	74.8	74.8	78.9	81.0
85°	35.3	39.5	39.5	35.3	33.2
87.5°	16.6	16.6	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)