

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: P385138

Luminaire Tested: **22ID-45-L830-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-45-L830-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

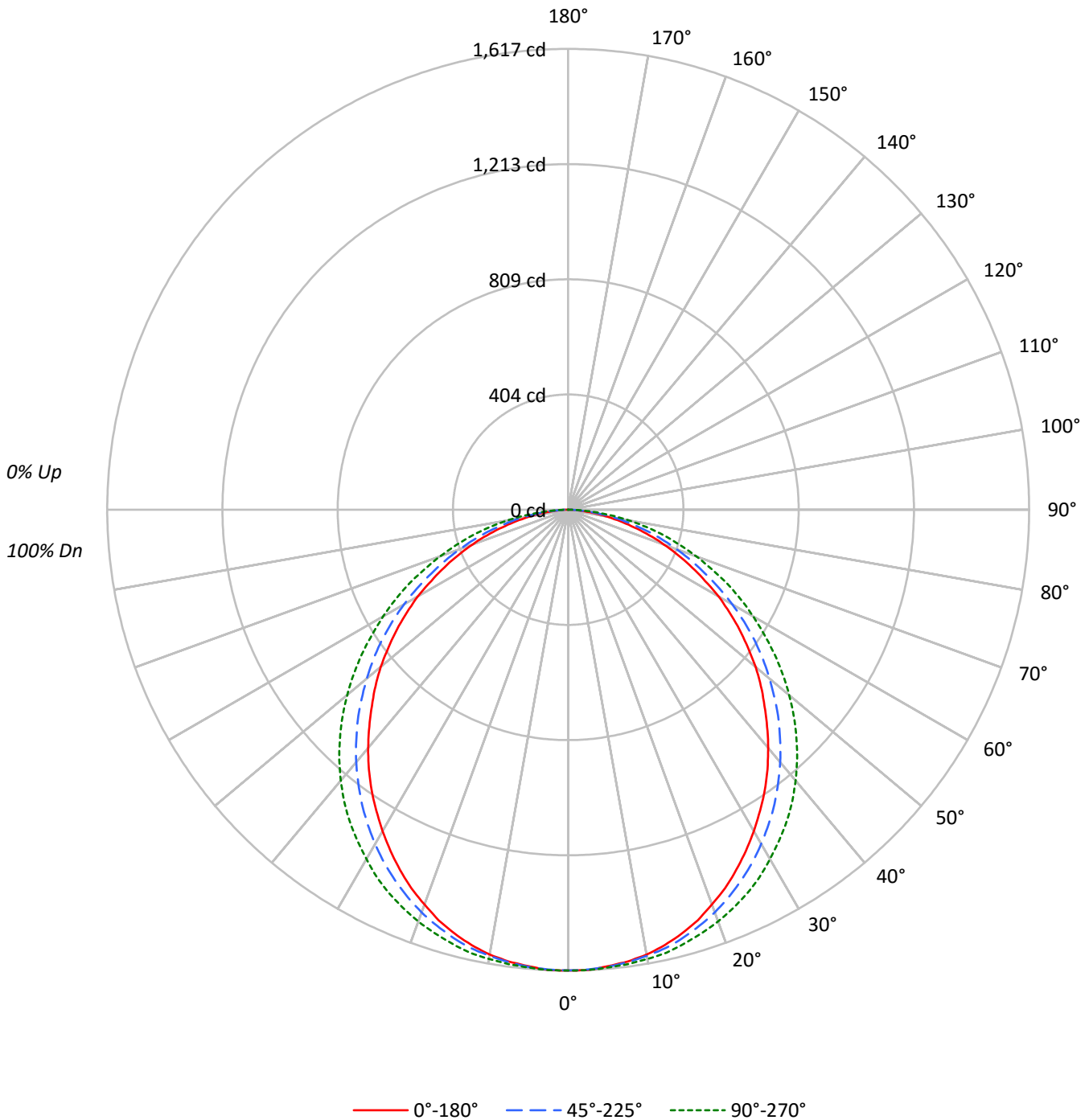
Lumens per Lamp: N/A  
Luminaire Lumens: 4489.3 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	4351	4351	4351
5°	4343	4349	4356
10°	4332	4344	4375
15°	4290	4334	4391
20°	4222	4306	4403
25°	4142	4263	4411
30°	4046	4208	4398
35°	3950	4144	4389
40°	3834	4065	4359
45°	3706	3973	4309
50°	3593	3859	4238
55°	3442	3740	4144
60°	3279	3583	4034
65°	3057	3374	3922
70°	2815	3172	3759
75°	2495	2943	3603
80°	2106	2631	3333
85°	1538	2029	2658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	3.4
10°-20°	439.1	9.8
20°-30°	662.2	14.8
30°-40°	790.6	17.6
40°-50°	808.0	18.0
50°-60°	716.5	16.0
60°-70°	534.1	11.9
70°-80°	305.1	6.8
80°-90°	80.5	1.8
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°	1254.4	27.9
0°-40°	2045.0	45.6
0°-60°	3569.6	79.5
0°-90°	4489.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4489.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1608	1608	1610	1610	1612	153
15°	1540	1544	1556	1569	1576	434
25°	1395	1406	1436	1467	1486	642
35°	1202	1218	1261	1311	1336	751
45°	974	994	1044	1101	1132	752
55°	734	747	797	854	883	656
65°	480	491	530	584	616	476
75°	240	251	283	326	346	256
85°	50	52	66	82	86	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.9	1616.9	1616.9	1616.9	1616.9
2.5°	1616.9	1614.6	1614.6	1614.6	1616.9
5°	1607.8	1607.8	1610.1	1610.1	1612.4
7.5°	1598.8	1598.8	1601.0	1603.3	1607.8
10°	1585.2	1585.2	1589.7	1596.5	1601.0
12.5°	1564.8	1567.1	1576.1	1585.2	1592.0
15°	1539.9	1544.4	1555.7	1569.3	1576.1
17.5°	1510.5	1515.0	1530.8	1549.0	1558.0
20°	1474.2	1483.3	1503.7	1526.3	1537.6
22.5°	1438.0	1447.0	1472.0	1499.1	1512.7
25°	1395.0	1406.3	1435.7	1467.4	1485.5
27.5°	1349.7	1363.3	1397.2	1433.5	1453.8
30°	1302.1	1318.0	1354.2	1395.0	1415.3
32.5°	1252.3	1268.1	1308.9	1354.2	1376.8
35°	1202.5	1218.3	1261.4	1311.2	1336.1
37.5°	1148.1	1164.0	1209.3	1263.6	1290.8
40°	1091.5	1109.6	1157.2	1211.5	1241.0
42.5°	1032.6	1053.0	1100.6	1159.4	1188.9
45°	973.8	994.1	1044.0	1100.6	1132.3
47.5°	917.1	933.0	982.8	1041.7	1073.4
50°	858.3	871.9	921.7	980.6	1012.3
52.5°	794.9	813.0	860.5	919.4	948.8
55°	733.7	747.3	797.1	853.7	883.2
57.5°	670.3	683.9	731.4	788.1	815.2
60°	609.2	622.8	665.8	722.4	749.6
62.5°	541.2	554.8	597.8	656.7	683.9
65°	480.1	491.4	529.9	584.3	616.0
67.5°	418.9	430.3	466.5	518.6	543.5
70°	357.8	366.9	403.1	450.6	477.8
72.5°	298.9	308.0	344.2	387.2	409.9
75°	240.0	251.4	283.1	326.1	346.5
77.5°	185.7	197.0	224.2	262.7	280.8
80°	135.9	144.9	169.8	199.3	215.1
82.5°	90.6	97.4	115.5	140.4	151.7
85°	49.8	52.1	65.7	81.5	86.1
87.5°	20.4	20.4	24.9	27.2	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)