

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: P385250

Luminaire Tested: **14ID-45-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L830-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

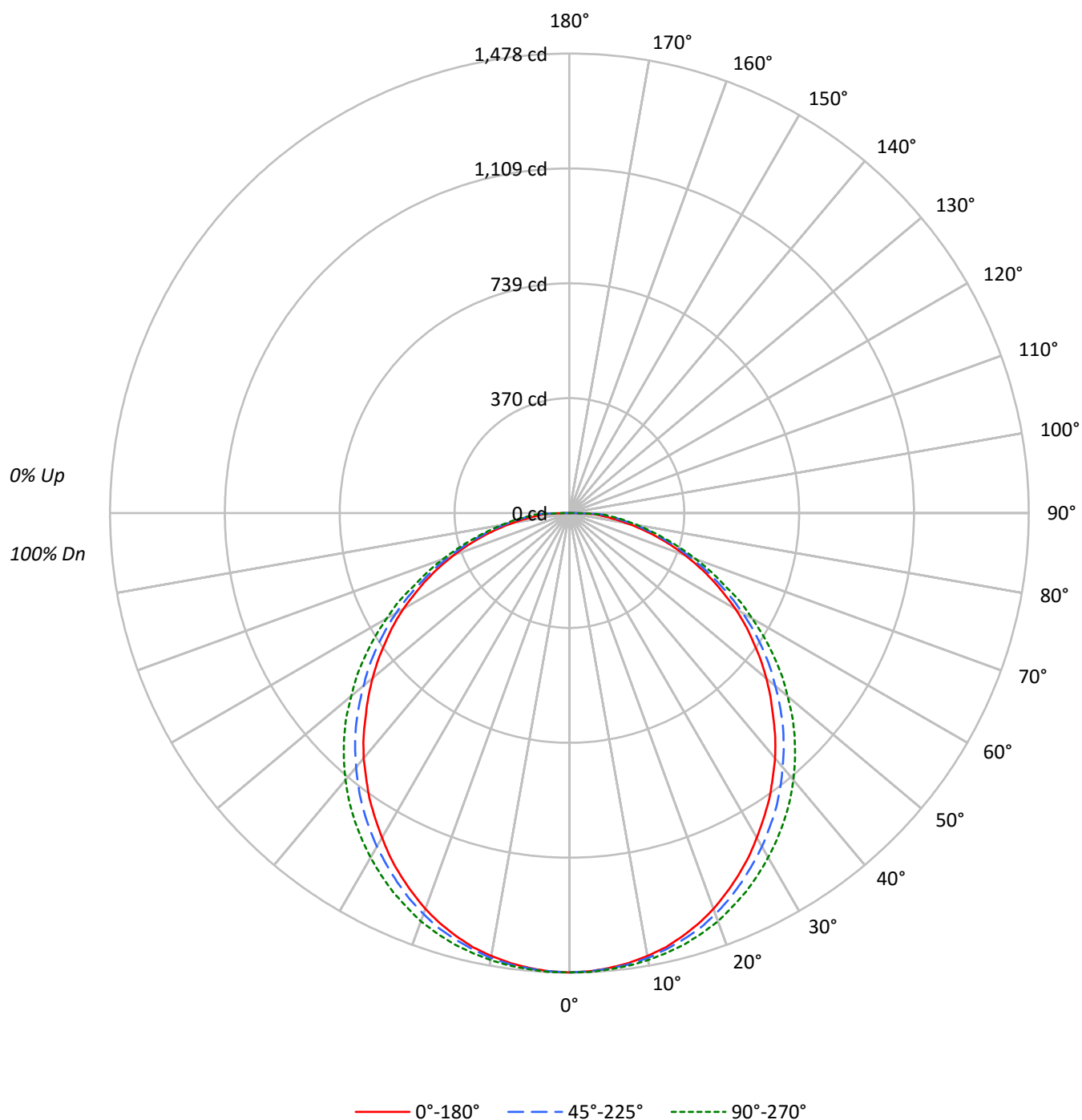
Input Watts (W): 38.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	94	105	101	97	93		96	93	90		93	90	87		89	87	85
2	98	90	82	77	95	88	81	76		84	79	74		81	76	72		78	74	70
3	89	78	70	63	87	77	69	63		74	67	62		71	65	61		68	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3976	3976	3976
5°	3953	3922	3922
10°	3923	3870	3875
15°	3880	3804	3827
20°	3822	3731	3773
25°	3745	3640	3702
30°	3658	3548	3626
35°	3578	3451	3547
40°	3495	3337	3454
45°	3387	3223	3344
50°	3298	3079	3199
55°	3197	2937	3040
60°	3099	2761	2839
65°	2957	2545	2582
70°	2784	2309	2333
75°	2587	2048	2043
80°	2319	1769	1757
85°	2190	1538	1492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.3
10°-20°	400.6	9.3
20°-30°	604.6	14.1
30°-40°	725.7	16.9
40°-50°	751.0	17.5
50°-60°	680.4	15.9
60°-70°	524.2	12.2
70°-80°	324.4	7.6
80°-90°	134.7	3.1
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°	1145.0	26.7
0°-40°	1870.7	43.7
0°-60°	3302.0	77.1
0°-90°	4285.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1469	1469	1471	1471	1473	140
15°	1408	1411	1420	1428	1435	397
25°	1286	1290	1310	1333	1344	592
35°	1121	1130	1159	1190	1206	701
45°	927	940	972	1007	1025	717
55°	722	733	758	791	802	646
65°	506	510	526	548	550	500
75°	288	294	305	319	319	305
85°	105	116	134	143	140	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.5	1477.5	1477.5	1477.5	1477.5
2.5°	1475.3	1475.3	1475.3	1475.3	1477.5
5°	1468.6	1468.6	1470.8	1470.8	1473.0
7.5°	1459.7	1459.7	1464.1	1464.1	1468.6
10°	1446.3	1448.5	1453.0	1455.2	1459.7
12.5°	1430.7	1430.7	1437.4	1444.1	1448.5
15°	1408.4	1410.6	1419.5	1428.5	1435.1
17.5°	1383.9	1386.1	1399.5	1408.4	1417.3
20°	1354.9	1357.1	1372.7	1386.1	1397.3
22.5°	1321.5	1325.9	1343.8	1361.6	1370.5
25°	1285.8	1290.3	1310.3	1332.6	1343.8
27.5°	1248.0	1254.6	1274.7	1299.2	1312.6
30°	1205.6	1214.5	1239.0	1265.8	1279.1
32.5°	1163.3	1172.2	1198.9	1230.1	1243.5
35°	1120.9	1129.8	1158.8	1190.0	1205.6
37.5°	1074.1	1083.0	1114.2	1147.7	1165.5
40°	1029.6	1038.5	1067.4	1105.3	1120.9
42.5°	980.5	989.4	1020.6	1056.3	1074.1
45°	927.0	940.4	971.6	1007.3	1025.1
47.5°	878.0	889.2	918.1	956.0	973.8
50°	826.8	837.9	864.7	902.5	915.9
52.5°	775.5	786.7	813.4	849.1	862.4
55°	722.0	733.2	757.7	791.1	802.3
57.5°	670.8	679.7	702.0	733.2	742.1
60°	617.3	626.2	644.0	673.0	679.7
62.5°	559.3	566.0	586.1	612.8	621.7
65°	505.9	510.3	525.9	548.2	550.4
67.5°	450.2	454.6	470.2	485.8	492.5
70°	394.4	401.1	412.3	427.9	432.3
72.5°	341.0	347.6	358.8	372.2	374.4
75°	287.5	294.2	305.3	318.7	318.7
77.5°	236.2	242.9	256.3	267.4	267.4
80°	185.0	196.1	209.5	220.6	220.6
82.5°	142.6	151.5	169.4	178.3	178.3
85°	104.7	115.9	133.7	142.6	140.4
87.5°	75.8	86.9	102.5	109.2	107.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)