

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: P385350

Luminaire Tested: **24ID-35-L830-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385350  
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: 24ID-35-L830-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

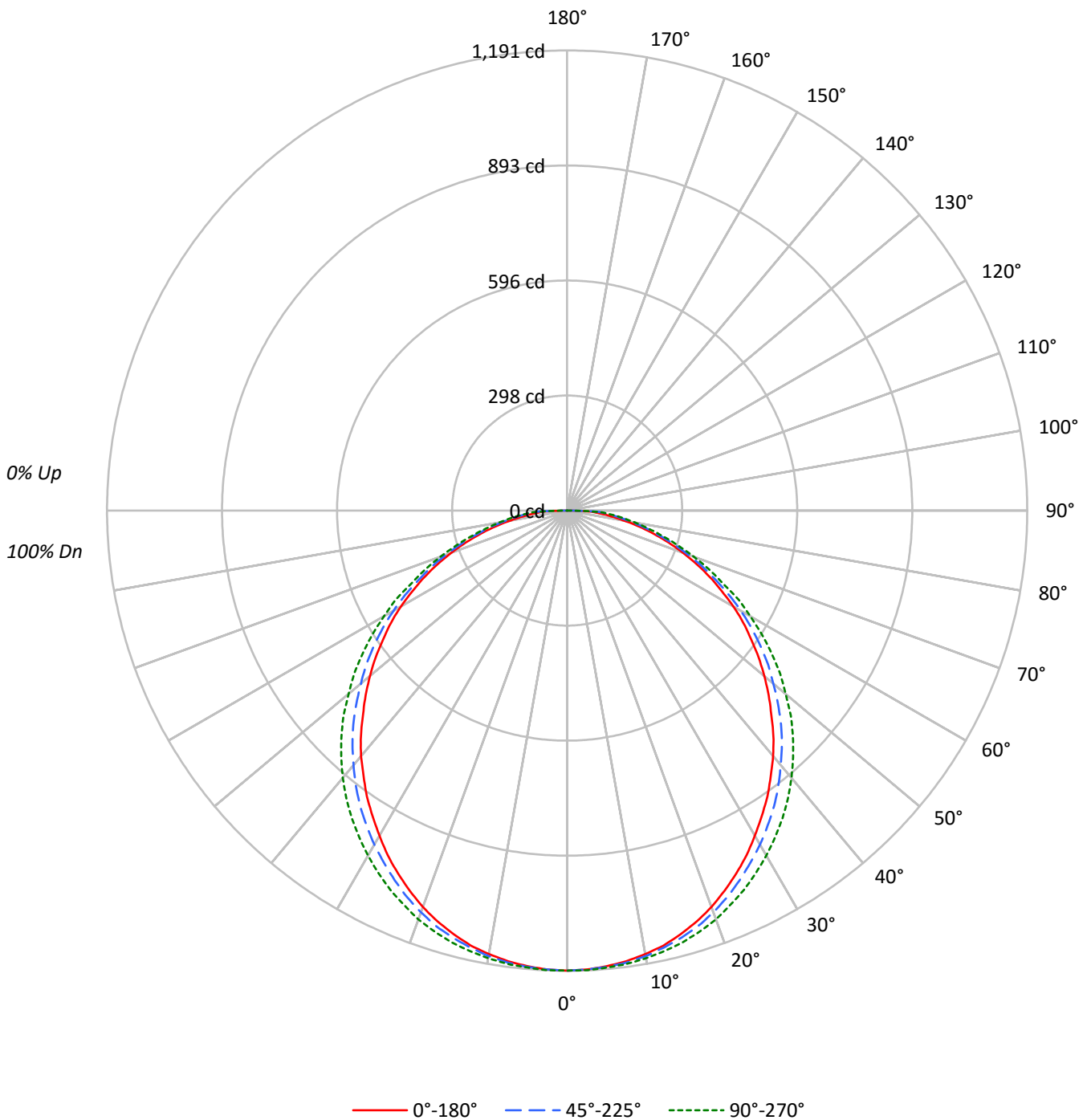
Lumens per Lamp: N/A  
Luminaire Lumens: 3453.4 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 30.4  
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



TEST NUMBER: P385350  
CATALOG NUMBER: 24ID-35-L830-CNV

### Luminous Intensity Polar Plot





TEST NUMBER: P385350

CATALOG NUMBER: 24ID-35-L830-CNV

**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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

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

	0°	45°	90°
0°	1602	1602	1602
5°	1593	1589	1592
10°	1581	1575	1584
15°	1564	1557	1576
20°	1540	1535	1565
25°	1509	1506	1548
30°	1474	1476	1528
35°	1442	1445	1508
40°	1408	1407	1483
45°	1365	1369	1451
50°	1329	1320	1405
55°	1288	1272	1355
60°	1249	1211	1288
65°	1192	1134	1198
70°	1122	1052	1115
75°	1042	962	1018
80°	934	871	936
85°	883	828	894



TEST NUMBER: P385350

CATALOG NUMBER: 24ID-35-L830-CNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	3.3
10°-20°	322.9	9.3
20°-30°	487.2	14.1
30°-40°	584.8	16.9
40°-50°	605.2	17.5
50°-60°	548.3	15.9
60°-70°	422.4	12.2
70°-80°	261.4	7.6
80°-90°	108.6	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°	922.7	26.7
0°-40°	1507.5	43.7
0°-60°	2661.0	77.1
0°-90°	3453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1184	1184	1185	1185	1187	112
15°	1135	1137	1144	1151	1156	320
25°	1036	1040	1056	1074	1083	477
35°	903	910	934	959	972	565
45°	747	758	783	812	826	578
55°	582	591	611	638	646	521
65°	408	411	424	442	444	403
75°	232	237	246	257	257	245
85°	84	93	108	115	113	91
90°	0	0	0	0	0	



TEST NUMBER: P385350

CATALOG NUMBER: 24ID-35-L830-CNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1188.9	1188.9	1188.9	1188.9	1190.7
5°	1183.5	1183.5	1185.3	1185.3	1187.1
7.5°	1176.3	1176.3	1179.9	1179.9	1183.5
10°	1165.5	1167.3	1170.9	1172.7	1176.3
12.5°	1152.9	1152.9	1158.3	1163.7	1167.3
15°	1135.0	1136.8	1144.0	1151.2	1156.5
17.5°	1115.2	1117.0	1127.8	1135.0	1142.2
20°	1091.9	1093.7	1106.3	1117.0	1126.0
22.5°	1065.0	1068.5	1082.9	1097.3	1104.5
25°	1036.2	1039.8	1056.0	1073.9	1082.9
27.5°	1005.7	1011.1	1027.2	1047.0	1057.8
30°	971.6	978.7	998.5	1020.1	1030.8
32.5°	937.4	944.6	966.2	991.3	1002.1
35°	903.3	910.5	933.9	959.0	971.6
37.5°	865.6	872.8	897.9	924.9	939.2
40°	829.7	836.9	860.2	890.8	903.3
42.5°	790.2	797.4	822.5	851.2	865.6
45°	747.1	757.9	783.0	811.7	826.1
47.5°	707.6	716.6	739.9	770.4	784.8
50°	666.3	675.2	696.8	727.3	738.1
52.5°	625.0	633.9	655.5	684.2	695.0
55°	581.9	590.8	610.6	637.5	646.5
57.5°	540.6	547.7	565.7	590.8	598.0
60°	497.5	504.6	519.0	542.4	547.7
62.5°	450.8	456.2	472.3	493.9	501.0
65°	407.7	411.3	423.8	441.8	443.6
67.5°	362.8	366.4	378.9	391.5	396.9
70°	317.9	323.3	332.2	344.8	348.4
72.5°	274.8	280.2	289.1	299.9	301.7
75°	231.7	237.1	246.0	256.8	256.8
77.5°	190.4	195.7	206.5	215.5	215.5
80°	149.1	158.0	168.8	177.8	177.8
82.5°	114.9	122.1	136.5	143.7	143.7
85°	84.4	93.4	107.8	114.9	113.1
87.5°	61.1	70.0	82.6	88.0	86.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)