

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: INVUE

Report Number: P184522

Luminaire Tested: **36EN-LD2-08-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 36EN-LD2-08-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 803.2 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

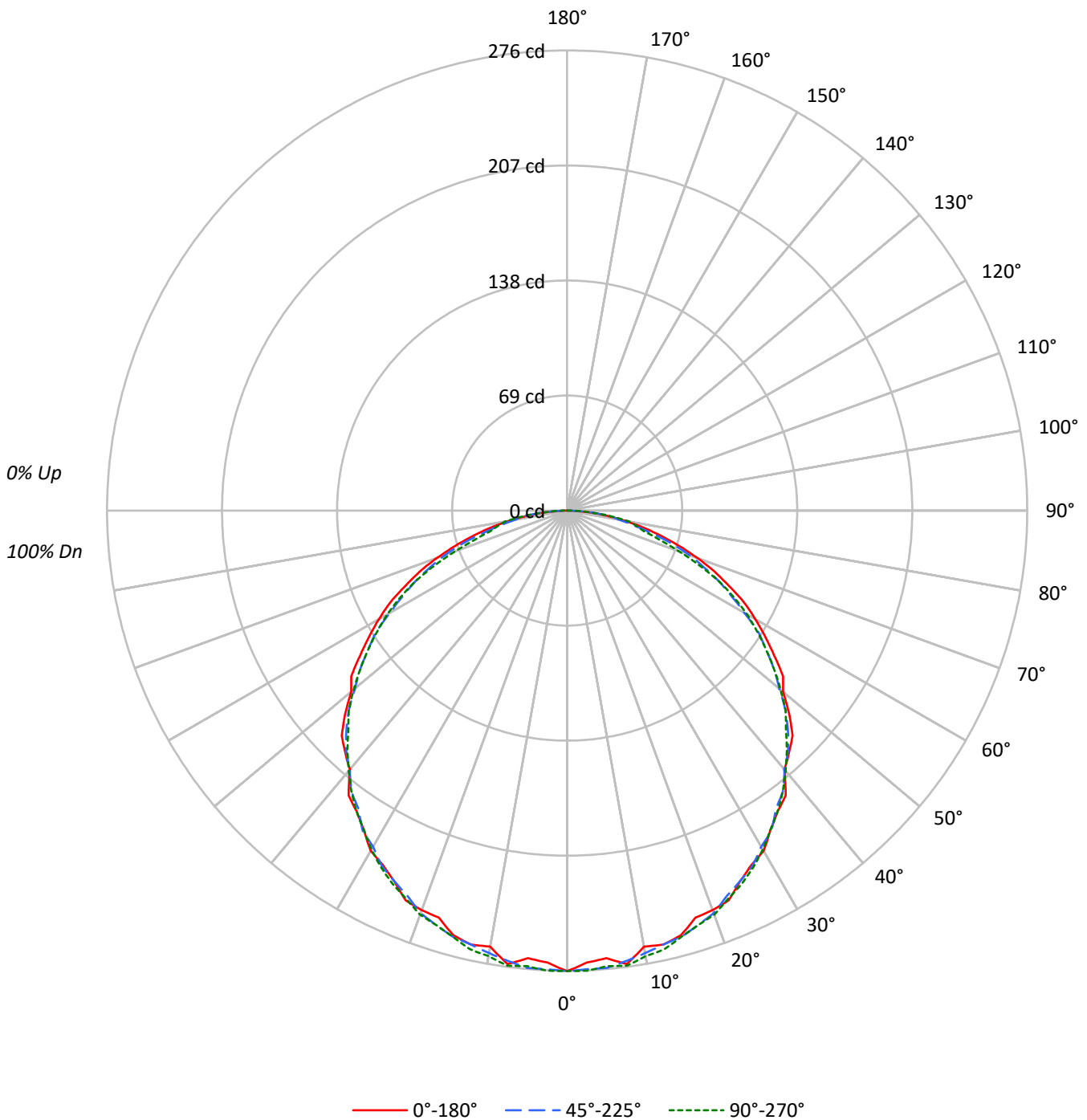
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P184522

CATALOG NUMBER: 36EN-LD2-08-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184522

CATALOG NUMBER: 36EN-LD2-08-UNV-L835-CD1-U

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1486	1486	1486
5°	1456	1487	1482
10°	1451	1473	1483
15°	1469	1475	1475
20°	1460	1471	1477
25°	1457	1457	1469
30°	1465	1447	1459
35°	1447	1434	1447
40°	1425	1425	1432
45°	1455	1426	1412
50°	1415	1391	1399
55°	1422	1368	1368
60°	1404	1321	1341
65°	1365	1280	1280
70°	1308	1231	1125
75°	1206	1085	984
80°	1079	989	1168
85°	895	1013	957



TEST NUMBER: P184522

CATALOG NUMBER: 36EN-LD2-08-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	3.3
10°-20°	74.6	9.3
20°-30°	113.5	14.1
30°-40°	137.5	17.1
40°-50°	144.3	18.0
50°-60°	131.9	16.4
60°-70°	100.9	12.6
70°-80°	56.7	7.1
80°-90°	17.7	2.2
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°	214.2	26.7
0°-40°	351.8	43.8
0°-60°	628.0	78.2
0°-90°	803.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	276	276	276	276	276	
5°	270	274	275	277	274	26
15°	264	264	265	265	265	74
25°	245	246	245	247	247	113
35°	220	219	218	220	220	138
45°	191	188	187	186	186	146
55°	152	150	146	146	146	135
65°	107	104	100	100	100	106
75°	58	56	52	48	47	62
85°	14	14	16	16	16	17
90°	0	0	0	0	0	



TEST NUMBER: P184522

CATALOG NUMBER: 36EN-LD2-08-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	276.2	276.2	276.2	276.2	276.2
2.5°	271.4	275.3	275.3	277.2	276.2
5°	269.5	274.3	275.3	277.2	274.3
7.5°	274.3	273.3	272.4	274.3	275.3
10°	265.6	269.5	269.5	274.3	271.4
12.5°	266.6	267.6	266.6	266.6	269.5
15°	263.7	263.7	264.7	264.7	264.7
17.5°	256.0	259.8	260.8	261.8	260.8
20°	255.0	256.0	256.9	257.9	257.9
22.5°	253.1	251.1	250.2	254.0	252.1
25°	245.3	246.3	245.3	247.3	247.3
27.5°	239.5	239.5	240.5	239.5	241.5
30°	235.7	234.7	232.8	234.7	234.7
32.5°	227.0	228.0	228.0	227.0	227.0
35°	220.2	219.3	218.3	220.2	220.2
37.5°	215.4	210.6	212.5	211.5	212.5
40°	202.8	205.7	202.8	202.8	203.8
42.5°	197.0	196.1	196.1	195.1	195.1
45°	191.2	188.3	187.4	185.5	185.5
47.5°	180.6	180.6	177.7	175.8	177.7
50°	169.0	170.0	166.1	165.2	167.1
52.5°	163.2	160.3	156.5	157.4	156.5
55°	151.6	149.7	145.8	145.8	145.8
57.5°	141.0	140.1	136.2	135.2	135.2
60°	130.4	128.5	122.7	123.6	124.6
62.5°	119.8	116.9	111.1	113.0	113.0
65°	107.2	104.3	100.5	99.5	100.5
67.5°	95.6	91.8	88.9	87.9	86.0
70°	83.1	81.1	78.2	72.4	71.5
72.5°	70.5	67.6	65.7	58.9	58.0
75°	58.0	56.0	52.2	48.3	47.3
77.5°	46.4	45.4	40.6	40.6	42.5
80°	34.8	33.8	31.9	35.7	37.7
82.5°	24.1	23.2	26.1	27.0	27.0
85°	14.5	14.5	16.4	15.5	15.5
87.5°	5.8	6.8	6.8	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)