

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: FAIL-SAFE

Report Number: P302603

Luminaire Tested: **FSP-24-38HE-35-CA125**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P302603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-38HE-35-CA125
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (266) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

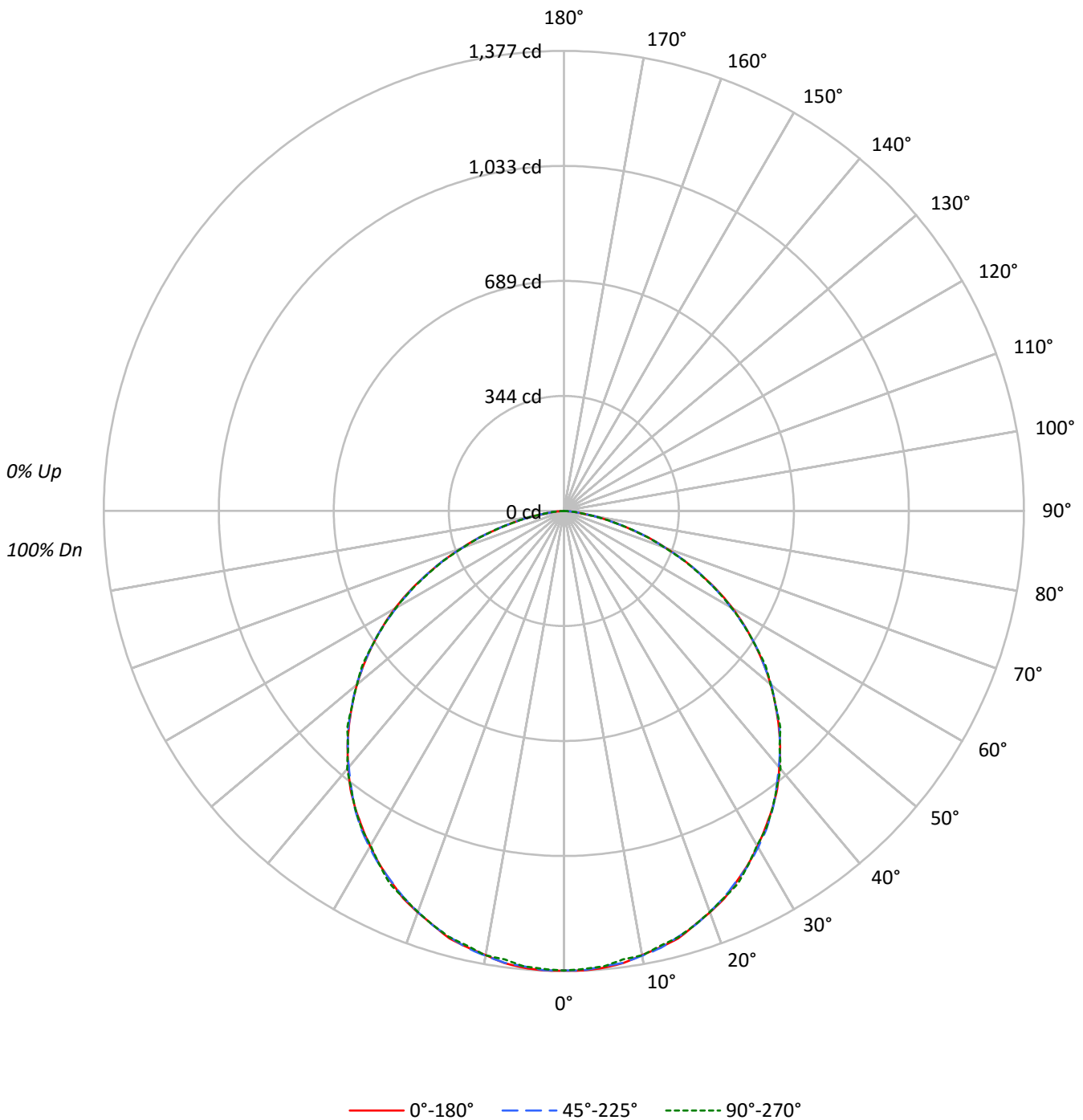
Lumens per Lamp: N/A
Luminaire Lumens: 3775.4 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1851	1851	1851
5°	1853	1848	1848
10°	1844	1847	1845
15°	1845	1839	1840
20°	1830	1829	1829
25°	1817	1815	1828
30°	1801	1806	1796
35°	1786	1790	1788
40°	1762	1758	1772
45°	1730	1735	1743
50°	1693	1698	1691
55°	1639	1642	1639
60°	1572	1554	1560
65°	1450	1453	1436
70°	1284	1275	1271
75°	1044	1056	1050
80°	745	745	736
85°	354	354	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.4
10°-20°	372.6	9.9
20°-30°	564.4	14.9
30°-40°	679.9	18.0
40°-50°	702.0	18.6
50°-60°	624.5	16.5
60°-70°	449.2	11.9
70°-80°	216.9	5.7
80°-90°	36.0	1.0
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°	1067.0	28.3
0°-40°	1746.9	46.3
0°-60°	3073.4	81.4
0°-90°	3775.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1372	1367	1368	1365	1368	130
15°	1324	1322	1320	1323	1321	373
25°	1224	1224	1223	1223	1232	564
35°	1087	1086	1090	1088	1088	680
45°	909	910	912	910	916	701
55°	699	698	700	701	699	624
65°	455	456	456	457	451	451
75°	201	202	203	203	202	217
85°	23	24	23	23	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.6	1375.6	1375.6	1375.6	1375.6
2.5°	1376.7	1375.6	1375.6	1369.0	1372.3
5°	1372.3	1366.9	1368.0	1364.7	1368.0
7.5°	1364.7	1361.4	1363.6	1355.9	1353.8
10°	1349.4	1350.5	1351.6	1346.1	1350.5
12.5°	1337.4	1340.7	1339.6	1334.1	1333.0
15°	1324.3	1322.1	1319.9	1323.2	1321.0
17.5°	1300.3	1298.1	1301.4	1300.3	1300.3
20°	1278.4	1277.3	1277.3	1274.1	1277.3
22.5°	1255.5	1252.2	1252.2	1256.6	1253.3
25°	1223.8	1223.8	1222.7	1222.7	1231.5
27.5°	1193.3	1192.2	1195.5	1197.6	1194.4
30°	1159.4	1159.4	1162.7	1160.5	1156.2
32.5°	1123.4	1122.3	1128.9	1125.6	1126.7
35°	1087.4	1086.3	1089.6	1088.5	1088.5
37.5°	1049.2	1042.6	1044.8	1050.3	1045.9
40°	1003.3	1002.2	1001.1	1003.3	1008.8
42.5°	958.5	956.4	957.5	959.6	955.3
45°	909.4	910.5	911.6	910.5	916.0
47.5°	859.2	861.4	859.2	864.7	859.2
50°	809.0	807.9	811.2	811.2	807.9
52.5°	754.4	755.5	754.4	758.8	760.9
55°	698.7	697.6	699.8	700.9	698.7
57.5°	641.9	641.9	640.9	645.2	640.9
60°	584.1	579.7	577.5	579.7	579.7
62.5°	520.8	517.5	517.5	517.5	517.5
65°	455.3	456.3	456.3	457.4	450.9
67.5°	391.9	389.8	391.9	388.7	389.8
70°	326.4	327.5	324.2	326.4	323.2
72.5°	265.3	265.3	265.3	263.1	263.1
75°	200.9	202.0	203.1	203.1	202.0
77.5°	146.3	145.2	146.3	146.3	146.3
80°	96.1	93.9	96.1	95.0	95.0
82.5°	53.5	54.6	54.6	55.7	55.7
85°	22.9	24.0	22.9	22.9	24.0
87.5°	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)