

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147845

Luminaire Tested: **TLM-F01-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147845
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-5WQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

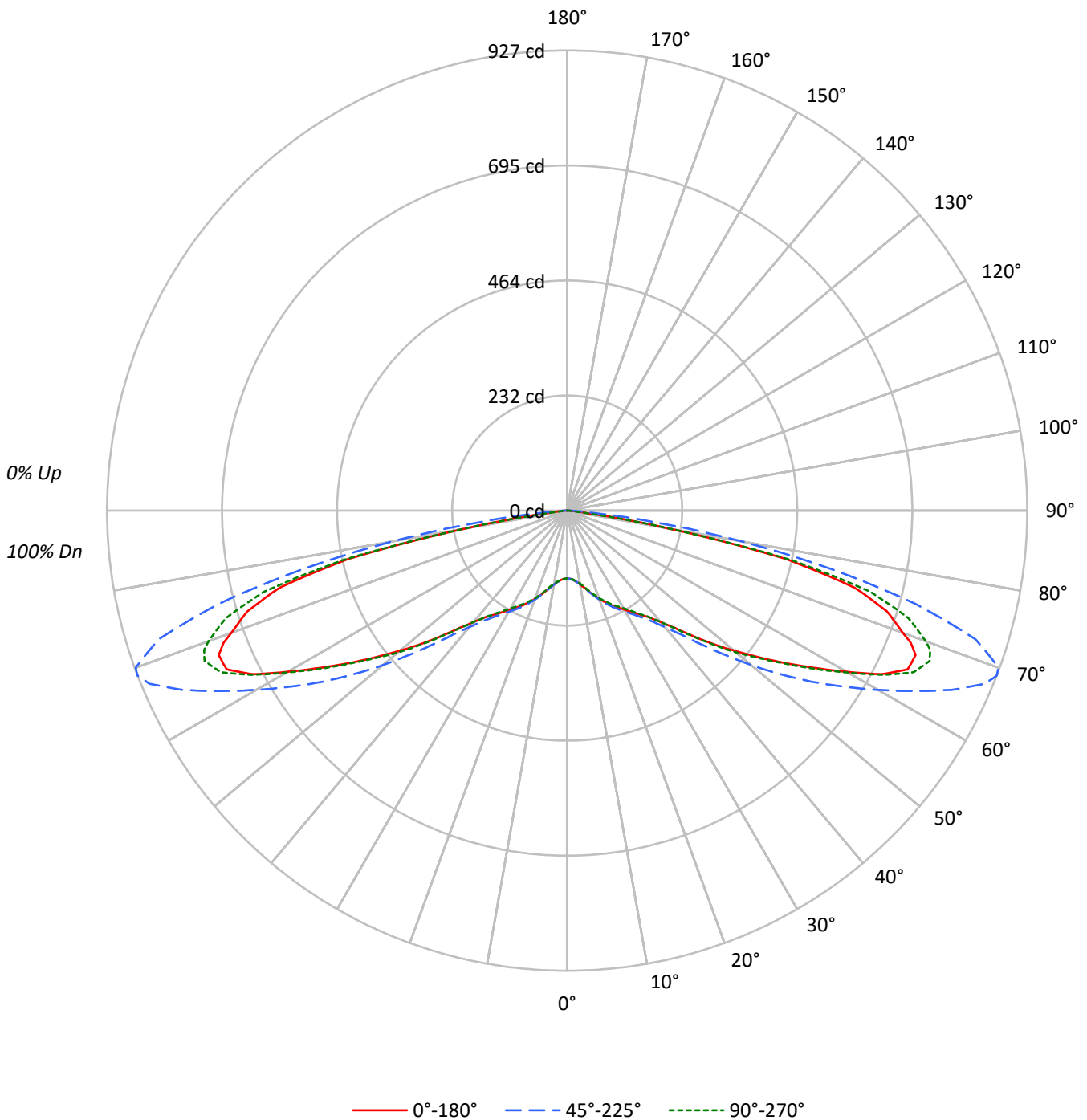
Lumens per Lamp: N/A
Luminaire Lumens: 2628.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8643	8643	8643
5°	8917	8917	8886
10°	9715	9696	9606
15°	11019	11078	10914
20°	12755	12870	12647
25°	14685	14916	14476
30°	16816	17203	16618
35°	19780	20313	19610
40°	24176	25292	24176
45°	31931	34000	32057
50°	43184	47656	43775
55°	59026	66311	59357
60°	82236	91443	82553
65°	113415	128007	115392
70°	133273	171224	142326
75°	146612	177999	154758
80°	74166	129735	76353
85°	9590	35162	7410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.5
10°-20°	48.4	1.8
20°-30°	98.0	3.7
30°-40°	164.3	6.3
40°-50°	289.8	11.0
50°-60°	511.1	19.4
60°-70°	780.2	29.7
70°-80°	652.0	24.8
80°-90°	70.8	2.7
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°	160.1	6.1
0°-40°	324.4	12.3
0°-60°	1125.3	42.8
0°-90°	2628.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	136	136	136	136	136	
5°	140	141	140	140	140	14
15°	168	169	169	167	166	48
25°	210	211	214	210	207	98
35°	256	258	263	257	254	163
45°	357	365	380	368	358	280
55°	535	560	601	565	538	484
65°	757	798	854	804	770	725
75°	599	633	728	674	633	577
85°	13	22	48	19	10	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5
2.5°	137.6	137.9	137.6	137.6	137.6	137.6	137.6	137.3	137.3	137.3	137.6
5°	140.3	140.6	140.3	140.6	140.6	140.6	140.6	140.3	140.3	140.3	140.3
7.5°	144.7	144.7	144.7	145.0	144.7	144.7	145.0	144.7	144.7	144.7	144.7
10°	151.1	150.8	150.8	150.8	150.8	150.8	151.1	151.1	151.1	151.1	150.8
12.5°	158.8	158.5	158.8	158.8	159.1	159.1	159.1	159.1	159.1	159.1	158.8
15°	168.1	168.1	168.1	168.4	169.0	169.0	168.7	169.0	169.0	169.0	169.0
17.5°	178.6	179.1	178.6	178.9	179.1	178.9	179.4	179.7	180.0	179.7	178.9
20°	189.3	189.6	189.6	189.6	189.6	190.1	190.4	190.4	191.2	191.0	190.7
22.5°	199.5	200.1	200.1	200.3	200.3	201.2	201.2	201.2	201.7	202.3	201.7
25°	210.2	210.0	210.0	210.5	210.8	211.9	211.9	212.4	213.3	213.5	213.0
27.5°	219.9	219.6	219.6	220.4	220.7	222.1	222.1	223.2	223.7	224.0	223.4
30°	230.0	230.0	229.8	230.6	231.4	232.5	233.1	234.2	235.0	235.3	234.7
32.5°	242.2	241.6	241.9	242.4	243.0	244.1	244.9	246.3	247.4	247.7	247.1
35°	255.9	255.1	255.4	255.9	256.7	258.4	259.8	260.6	262.2	262.8	261.7
37.5°	271.0	271.3	271.0	272.4	273.8	275.7	277.4	278.5	280.1	281.0	280.1
40°	292.5	291.7	292.5	293.9	296.1	298.6	301.9	302.7	304.3	306.0	304.1
42.5°	320.3	319.8	321.7	322.8	325.3	328.0	332.1	334.3	336.8	337.9	336.3
45°	356.6	356.6	358.8	359.1	363.0	366.5	372.3	375.1	379.7	379.7	379.7
47.5°	396.8	398.5	399.8	402.6	405.3	411.9	417.7	423.8	428.2	428.7	427.9
50°	438.4	440.0	444.1	448.0	454.0	462.3	468.6	476.6	480.5	483.8	482.7
52.5°	484.3	484.6	489.5	494.5	503.3	512.4	522.6	530.8	537.7	540.7	538.2
55°	534.7	535.2	539.6	544.8	554.8	565.2	577.9	586.4	595.2	600.7	596.6
57.5°	589.1	589.4	593.8	600.2	612.0	622.4	634.6	646.7	654.9	659.9	657.1
60°	649.4	650.8	654.1	662.1	673.4	684.4	696.5	707.2	716.8	722.1	719.3
62.5°	713.8	715.2	719.9	726.2	736.1	748.2	759.8	773.5	781.5	787.3	783.1
65°	757.0	759.5	766.9	775.4	790.0	805.7	819.2	837.9	847.5	854.4	850.6
67.5°	759.8	761.1	770.2	783.1	802.7	826.4	853.9	883.0	902.0	911.1	904.5
69°	741.0	743.0	751.8	766.4	788.1	815.6	848.4	884.7	913.9	927.3	921.0
70°	719.9	724.0	733.6	749.6	770.8	799.7	833.5	872.3	906.4	924.9	920.2
72.5°	675.3	676.4	682.7	695.4	711.6	735.5	767.5	804.1	836.5	862.9	866.8
75°	599.3	602.9	607.6	616.1	624.4	641.7	663.2	688.2	707.2	727.6	728.4
77.5°	452.9	463.7	467.2	469.2	472.8	486.5	505.2	527.0	542.6	545.9	545.4
80°	203.4	217.7	221.0	236.7	246.3	269.1	297.7	331.0	353.3	355.8	349.7
82.5°	39.9	42.7	49.8	62.2	84.8	98.2	116.9	140.3	161.8	174.2	166.8
85°	13.2	14.0	16.2	17.9	20.6	23.4	28.3	35.2	43.8	48.4	43.2
87.5°	5.2	5.2	6.1	6.6	7.2	7.2	7.2	6.6	6.3	5.2	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5
2.5°	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3
5°	140.3	140.1	140.1	139.8	139.8	139.8	139.8	139.8
7.5°	144.5	144.2	143.9	144.2	143.9	143.9	143.9	143.9
10°	150.8	150.2	150.0	149.7	149.7	149.7	149.4	149.4
12.5°	158.2	158.2	158.0	157.7	157.1	157.4	157.1	156.6
15°	168.4	167.9	167.6	167.3	166.8	166.8	166.8	166.5
17.5°	178.6	178.0	178.0	177.2	176.9	176.9	176.9	177.2
20°	189.9	189.0	188.5	187.9	187.4	187.7	187.1	187.7
22.5°	201.2	200.1	199.5	198.7	197.9	197.9	197.6	197.0
25°	212.2	210.8	210.2	209.4	208.3	208.3	207.8	207.2
27.5°	222.6	221.2	220.7	219.0	217.9	217.7	217.1	216.8
30°	234.2	232.5	231.7	230.0	228.4	228.1	227.3	227.3
32.5°	246.3	244.6	244.1	241.6	240.2	240.2	239.7	239.1
35°	261.4	258.9	258.4	255.9	254.0	254.0	253.4	253.7
37.5°	279.3	277.4	275.5	273.5	271.3	271.0	270.5	269.9
40°	303.2	301.0	298.8	296.1	294.2	293.6	292.8	292.5
42.5°	335.2	333.0	328.6	326.4	324.4	322.8	322.5	322.2
45°	375.9	373.1	370.1	366.0	363.5	359.9	359.4	358.0
47.5°	424.9	419.6	414.4	410.8	407.0	402.9	402.0	399.8
50°	476.9	472.8	463.9	458.2	452.1	448.0	445.2	444.4
52.5°	532.7	525.0	516.2	508.5	499.7	494.2	489.3	487.9
55°	591.1	580.1	569.1	560.0	551.2	544.6	539.9	537.7
57.5°	649.4	637.3	625.2	615.3	607.9	599.3	594.7	593.6
60°	710.2	698.7	686.3	676.4	667.3	659.9	657.1	651.9
62.5°	774.6	762.5	751.0	741.3	729.8	724.5	719.9	716.8
65°	837.9	823.9	809.3	799.1	787.6	780.1	774.3	770.2
67.5°	886.9	865.7	846.2	829.1	813.4	801.9	794.4	790.6
69°	900.6	874.2	849.2	826.9	808.5	795.5	787.3	783.4
70°	899.0	869.8	842.3	817.8	797.7	784.0	776.0	768.8
72.5°	848.1	821.4	790.9	764.2	746.0	732.8	724.8	721.0
75°	723.7	705.8	683.8	663.2	650.0	642.3	632.4	632.6
77.5°	527.0	527.5	512.7	491.5	476.6	473.9	469.4	465.0
80°	326.9	300.8	283.7	260.9	244.1	229.5	223.2	209.4
82.5°	150.8	117.8	91.4	69.1	53.1	41.6	36.3	29.7
85°	33.6	25.6	21.2	17.1	14.6	13.5	11.0	10.2
87.5°	4.7	4.1	3.9	3.6	3.0	2.2	1.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)