

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: NEO-RAY

Report Number: P333997

Luminaire Tested: **S123DS-S775D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DS-S775D840-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 775 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

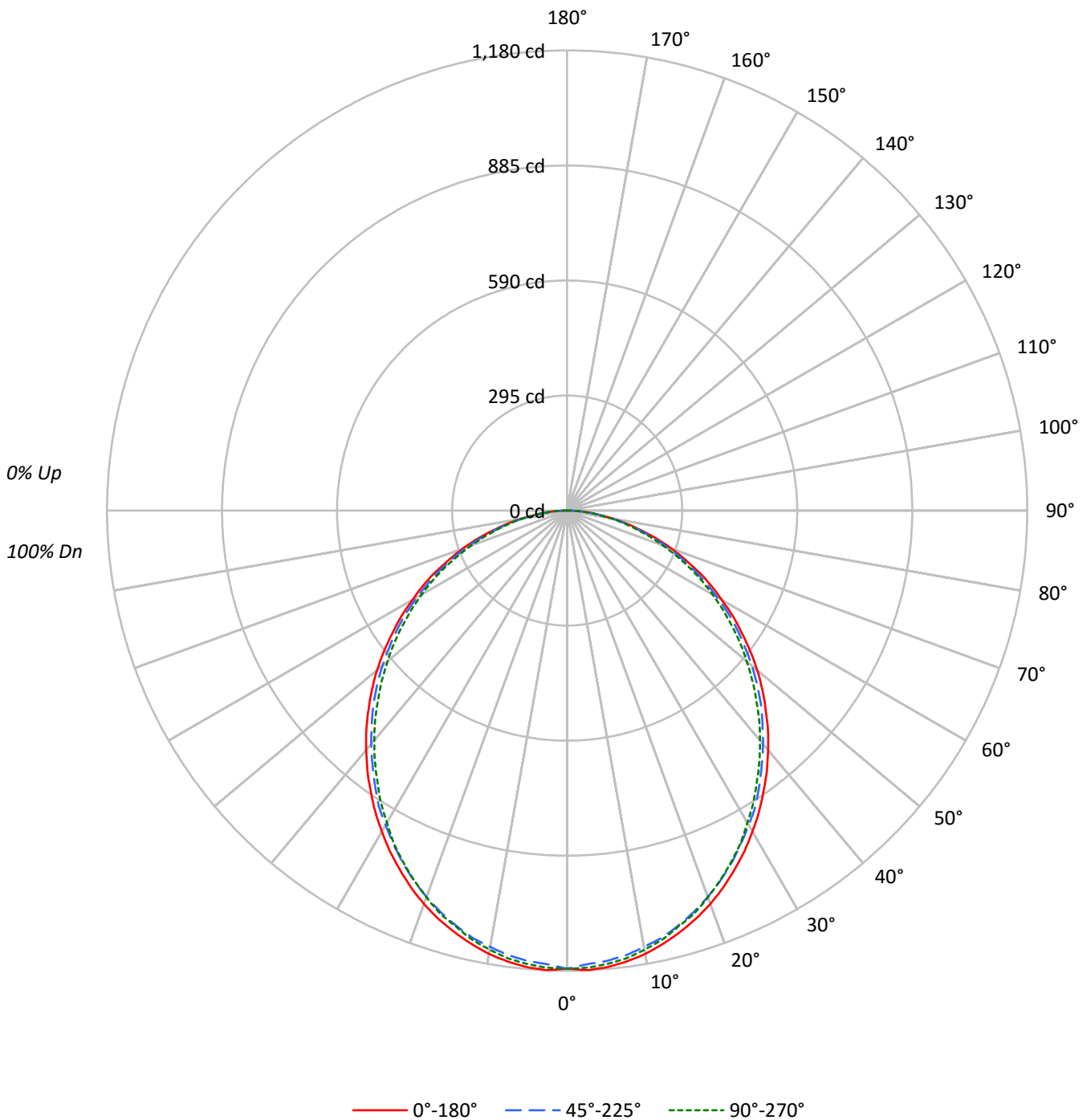
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	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	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12642	12642	12642
5°	12701	12526	12614
10°	12616	12418	12495
15°	12469	12278	12300
20°	12297	12077	12088
25°	12066	11837	11814
30°	11811	11573	11484
35°	11545	11293	11147
40°	11266	10982	10812
45°	10960	10700	10438
50°	10654	10349	10062
55°	10252	9987	9683
60°	9849	9565	9261
65°	9490	9105	8823
70°	8963	8582	8198
75°	8189	7898	7561
80°	7389	7073	7011
85°	6484	6237	5990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.6
10°-20°	312.6	10.2
20°-30°	461.7	15.1
30°-40°	539.3	17.6
40°-50°	542.1	17.7
50°-60°	476.2	15.6
60°-70°	354.7	11.6
70°-80°	201.8	6.6
80°-90°	57.4	1.9
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°	885.1	29.0
0°-40°	1424.4	46.6
0°-60°	2442.7	79.9
0°-90°	3056.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1176	1170	1159	1169	1167	111
15°	1119	1115	1102	1110	1104	316
25°	1016	1010	997	998	995	468
35°	879	872	859	853	848	550
45°	720	716	703	691	686	556
55°	546	545	532	521	516	489
65°	373	368	358	349	346	368
75°	197	193	190	185	182	210
85°	52	50	50	48	48	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1179.5	1175.5	1164.4	1174.5	1173.5
5°	1175.5	1170.4	1159.3	1169.4	1167.4
7.5°	1166.4	1161.3	1150.2	1159.3	1158.3
10°	1154.3	1149.2	1136.1	1145.2	1143.2
12.5°	1138.1	1134.1	1122.0	1128.0	1127.0
15°	1118.9	1114.9	1101.8	1109.8	1103.8
17.5°	1097.7	1092.7	1079.5	1085.6	1083.6
20°	1073.5	1067.4	1054.3	1058.3	1055.3
22.5°	1046.2	1040.2	1027.0	1030.1	1026.0
25°	1015.9	1009.9	996.7	997.7	994.7
27.5°	984.6	978.6	964.4	965.4	962.4
30°	950.3	945.2	931.1	931.1	924.0
32.5°	915.9	908.9	898.8	891.7	888.7
35°	878.6	872.5	859.4	853.3	848.3
37.5°	841.2	833.1	820.0	812.9	809.9
40°	801.8	795.8	781.6	773.6	769.5
42.5°	762.4	755.4	741.2	733.2	729.1
45°	720.0	716.0	702.9	690.7	685.7
47.5°	678.6	672.6	660.5	648.3	644.3
50°	636.2	631.2	618.0	606.9	600.9
52.5°	591.8	588.8	574.6	565.5	559.5
55°	546.3	545.3	532.2	521.1	516.0
57.5°	503.9	499.9	489.8	479.7	473.6
60°	457.5	456.5	444.3	435.3	430.2
62.5°	416.1	413.0	400.9	391.8	388.8
65°	372.6	367.6	357.5	349.4	346.4
67.5°	326.2	322.1	314.1	307.0	303.0
70°	284.8	278.7	272.7	265.6	260.5
72.5°	241.4	237.3	230.2	224.2	222.2
75°	196.9	192.9	189.9	184.8	181.8
77.5°	157.5	155.5	151.5	147.4	147.4
80°	119.2	116.1	114.1	113.1	113.1
82.5°	81.8	81.8	81.8	79.8	78.8
85°	52.5	50.5	50.5	48.5	48.5
87.5°	26.3	23.2	22.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)