

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: P334003

Luminaire Tested: **S123DS-S1000D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334003
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-S1000D927-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

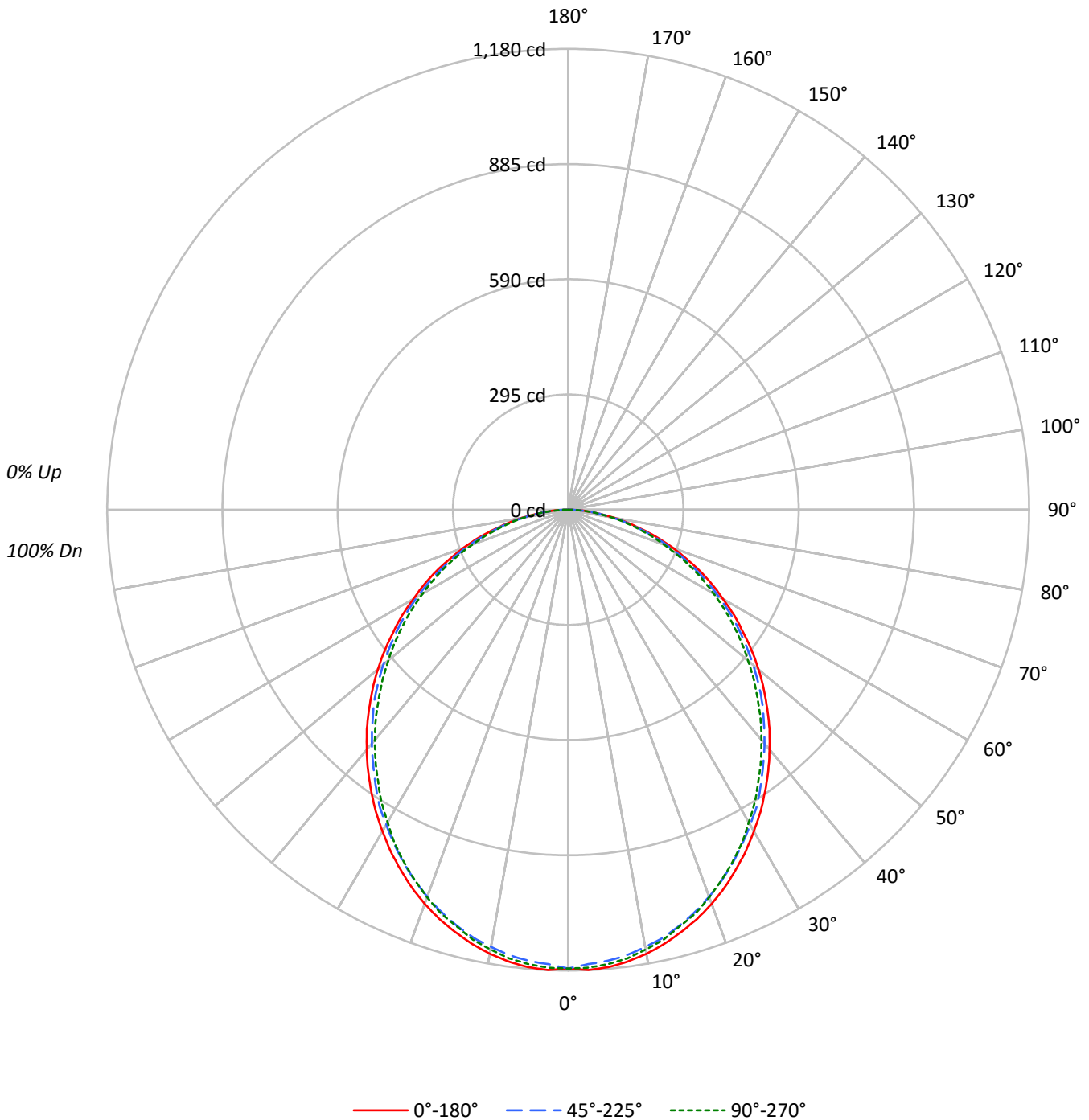
Lumens per Lamp: N/A
Luminaire Lumens: 3057.7 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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°	12647	12647	12647
5°	12706	12531	12618
10°	12621	12422	12500
15°	12473	12283	12305
20°	12301	12081	12093
25°	12070	11842	11818
30°	11815	11576	11489
35°	11549	11297	11151
40°	11271	10987	10817
45°	10965	10703	10441
50°	10657	10354	10066
55°	10256	9991	9687
60°	9851	9569	9266
65°	9495	9108	8825
70°	8966	8585	8201
75°	8193	7898	7561
80°	7389	7079	7011
85°	6484	6237	5990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.6
10°-20°	312.8	10.2
20°-30°	461.9	15.1
30°-40°	539.5	17.6
40°-50°	542.3	17.7
50°-60°	476.4	15.6
60°-70°	354.8	11.6
70°-80°	201.9	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°	885.4	29.0
0°-40°	1424.9	46.6
0°-60°	2443.6	79.9
0°-90°	3057.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1176	1171	1160	1170	1168	112
15°	1119	1115	1102	1110	1104	316
25°	1016	1010	997	998	995	468
35°	879	873	860	854	849	550
45°	720	716	703	691	686	556
55°	546	546	532	521	516	490
65°	373	368	358	350	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°	1174.9	1174.9	1174.9	1174.9	1174.9
2.5°	1179.9	1175.9	1164.8	1174.9	1173.9
5°	1175.9	1170.9	1159.7	1169.8	1167.8
7.5°	1166.8	1161.8	1150.6	1159.7	1158.7
10°	1154.7	1149.6	1136.5	1145.6	1143.6
12.5°	1138.5	1134.5	1122.4	1128.4	1127.4
15°	1119.3	1115.3	1102.2	1110.2	1104.2
17.5°	1098.1	1093.1	1079.9	1086.0	1084.0
20°	1073.9	1067.8	1054.7	1058.7	1055.7
22.5°	1046.6	1040.5	1027.4	1030.4	1026.4
25°	1016.3	1010.2	997.1	998.1	995.1
27.5°	985.0	978.9	964.8	965.8	962.7
30°	950.6	945.6	931.4	931.4	924.4
32.5°	916.3	909.2	899.1	892.0	889.0
35°	878.9	872.8	859.7	853.6	848.6
37.5°	841.5	833.4	820.3	813.2	810.2
40°	802.1	796.1	781.9	773.8	769.8
42.5°	762.7	755.6	741.5	733.4	729.4
45°	720.3	716.3	703.1	691.0	685.9
47.5°	678.9	672.8	660.7	648.6	644.5
50°	636.4	631.4	618.3	607.1	601.1
52.5°	592.0	589.0	574.8	565.7	559.7
55°	546.5	545.5	532.4	521.3	516.2
57.5°	504.1	500.1	490.0	479.9	473.8
60°	457.6	456.6	444.5	435.4	430.4
62.5°	416.2	413.2	401.1	392.0	388.9
65°	372.8	367.7	357.6	349.5	346.5
67.5°	326.3	322.3	314.2	307.1	303.1
70°	284.9	278.8	272.8	265.7	260.6
72.5°	241.4	237.4	230.3	224.3	222.2
75°	197.0	193.0	189.9	184.9	181.8
77.5°	157.6	155.6	151.5	147.5	147.5
80°	119.2	116.2	114.2	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)