

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: P242082

Luminaire Tested: **S121DR-S1025D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121DR-S1025D927-X4F0-XX-UDD-F-W
Description: DEFINE 1 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3229.1 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.09' x L: 3.88' x H: 0')
CIE Type: Direct

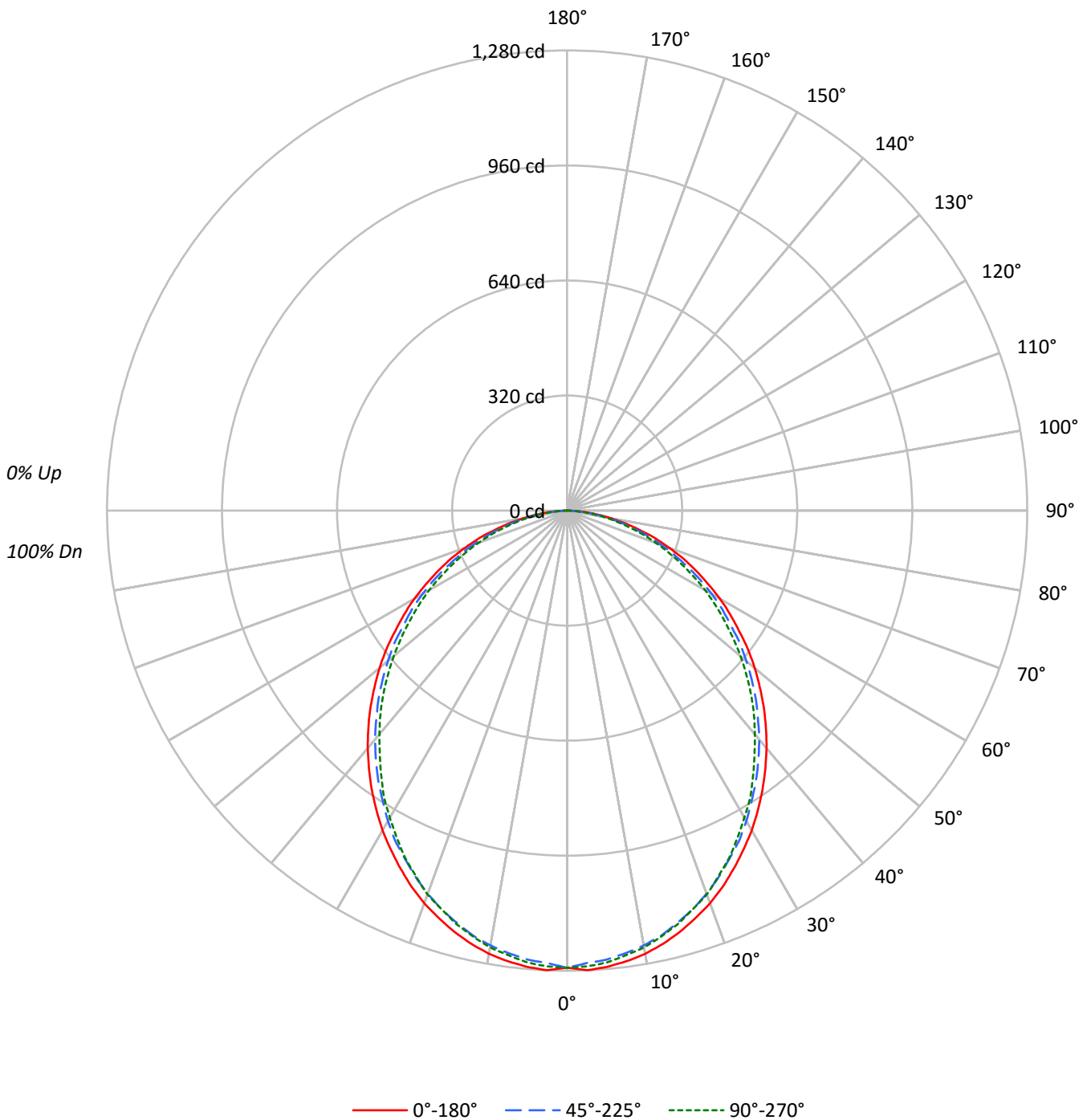
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37674	37674	37674
5°	37889	37295	37538
10°	37657	36950	37127
15°	37203	36411	36518
20°	36649	35763	35835
25°	35890	34929	34854
30°	35147	34104	33741
35°	34272	33126	32616
40°	33376	32150	31427
45°	32420	31092	30304
50°	31391	29981	29008
55°	30142	28629	27596
60°	29085	27550	26299
65°	27658	25850	24531
70°	26041	24110	22784
75°	23926	21912	20435
80°	21244	19230	17831
85°	17576	14380	12783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.7
10°-20°	337.1	10.4
20°-30°	495.9	15.4
30°-40°	575.8	17.8
40°-50°	574.4	17.8
50°-60°	499.9	15.5
60°-70°	368.2	11.4
70°-80°	205.1	6.4
80°-90°	52.9	1.6
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°	952.8	29.5
0°-40°	1528.6	47.3
0°-60°	2602.9	80.6
0°-90°	3229.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1274	1268	1254	1264	1262	121
15°	1213	1203	1187	1195	1190	342
25°	1098	1086	1068	1071	1066	506
35°	948	936	916	906	902	592
45°	774	761	742	728	723	596
55°	584	576	554	544	534	523
65°	394	386	369	357	350	392
75°	209	203	191	183	178	223
85°	52	49	42	40	38	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.5	1271.5	1271.5	1271.5	1271.5
2.5°	1279.7	1272.7	1259.8	1270.3	1269.2
5°	1273.9	1268.0	1253.9	1264.5	1262.1
7.5°	1264.5	1257.4	1242.2	1251.6	1248.0
10°	1251.6	1244.5	1228.1	1235.1	1234.0
12.5°	1234.0	1225.7	1210.5	1216.3	1212.8
15°	1212.8	1203.4	1187.0	1195.2	1190.5
17.5°	1188.2	1177.6	1162.3	1167.0	1162.3
20°	1162.3	1150.6	1134.2	1138.9	1136.5
22.5°	1131.8	1121.2	1102.5	1104.8	1100.1
25°	1097.8	1086.0	1068.4	1070.8	1066.1
27.5°	1062.5	1052.0	1035.5	1032.0	1026.1
30°	1027.3	1014.4	996.8	992.1	986.2
32.5°	987.4	975.7	955.7	951.0	947.5
35°	947.5	935.7	915.8	906.4	901.7
37.5°	905.2	893.5	873.5	862.9	855.9
40°	862.9	850.0	831.2	820.7	812.5
42.5°	818.3	806.6	785.5	774.9	769.0
45°	773.7	760.8	742.0	727.9	723.2
47.5°	726.8	715.0	696.2	681.0	676.3
50°	681.0	668.0	650.4	635.2	629.3
52.5°	634.0	622.3	605.8	590.6	581.2
55°	583.5	576.5	554.2	543.6	534.2
57.5°	537.7	529.5	511.9	494.3	488.4
60°	490.8	481.4	464.9	449.7	443.8
62.5°	441.5	434.4	418.0	403.9	395.7
65°	394.5	386.3	368.7	356.9	349.9
67.5°	351.0	340.5	322.9	311.1	305.3
70°	300.6	292.3	278.3	268.9	263.0
72.5°	257.1	247.7	234.8	225.4	219.6
75°	209.0	203.1	191.4	183.2	178.5
77.5°	166.7	158.5	150.3	144.4	140.9
80°	124.5	118.6	112.7	106.8	104.5
82.5°	86.9	82.2	76.3	72.8	69.3
85°	51.7	49.3	42.3	39.9	37.6
87.5°	24.7	21.1	14.1	12.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)