

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: P243064

Luminaire Tested: **S121RDR-H1025D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-62)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S121RDR-H1025D930-X4F0-XX-UDD-F-W
Description: DEFINE 1 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.7 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.92 / 1.09
Luminous Opening: Rectangular (W 0.09' x L: 3.88' x H: 0')
CIE Type: Direct

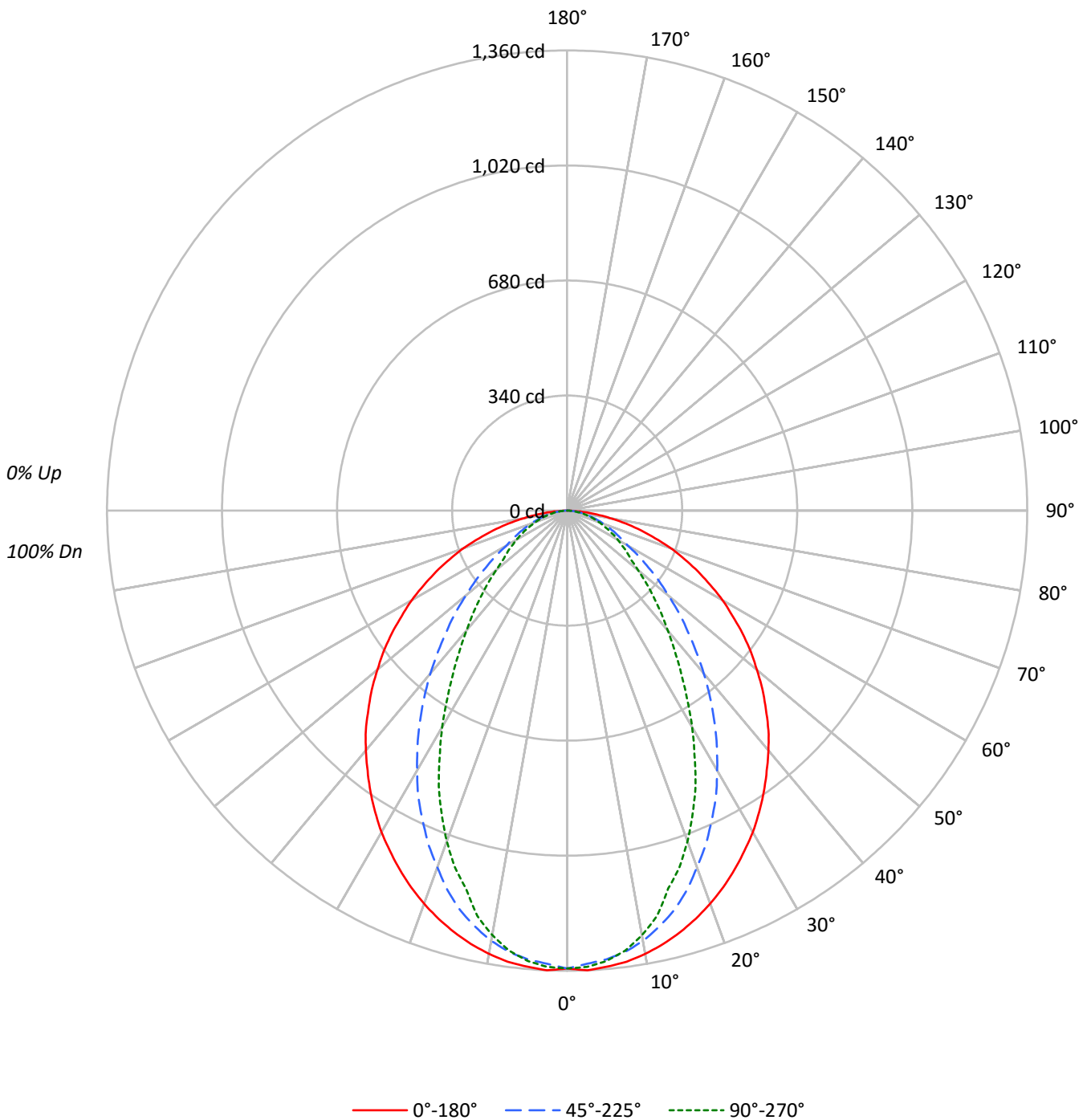
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89					87				
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77					75				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67					65				
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59					57				
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52					50				
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47					45				
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42					41				
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39					37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35					34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40095	40095	40095
5°	40248	39603	39736
10°	40024	38851	38334
15°	39577	37500	35460
20°	38982	35365	32799
25°	38280	33029	29358
30°	37549	30330	25267
35°	36670	27418	21240
40°	35797	24310	17877
45°	34792	21098	15135
50°	33728	17973	12579
55°	32699	15167	11194
60°	31467	12302	10264
65°	29909	11014	9409
70°	28311	9937	8646
75°	25861	8929	7876
80°	22114	7832	7047
85°	17168	6629	5847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	5.0
10°-20°	344.3	13.7
20°-30°	469.9	18.7
30°-40°	487.1	19.4
40°-50°	425.0	16.9
50°-60°	319.9	12.7
60°-70°	209.7	8.3
70°-80°	106.9	4.2
80°-90°	27.2	1.1
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°	940.9	37.4
0°-40°	1428.0	56.7
0°-60°	2172.9	86.3
0°-90°	2516.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1353	1346	1332	1340	1336	128
15°	1290	1272	1222	1188	1156	364
25°	1171	1123	1010	926	898	539
35°	1014	927	758	631	587	634
45°	830	710	504	391	361	641
55°	633	482	294	222	217	565
65°	427	266	157	139	134	423
75°	226	103	78	71	69	238
85°	50	21	20	17	17	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1360.1	1354.4	1340.6	1352.1	1349.8
5°	1353.2	1346.4	1331.5	1339.5	1336.0
7.5°	1345.2	1336.0	1315.4	1318.8	1312.0
10°	1330.3	1318.8	1291.3	1284.4	1274.1
12.5°	1312.0	1299.3	1259.2	1243.1	1227.1
15°	1290.2	1271.8	1222.5	1188.1	1156.0
17.5°	1264.9	1242.0	1176.6	1128.5	1104.4
20°	1236.3	1206.4	1121.6	1065.4	1040.2
22.5°	1205.3	1167.5	1070.0	998.9	969.1
25°	1170.9	1122.7	1010.3	925.5	898.0
27.5°	1134.2	1079.2	953.0	855.5	815.4
30°	1097.5	1028.7	886.5	777.5	738.5
32.5°	1056.2	978.2	823.4	703.0	659.4
35°	1013.8	926.6	758.0	630.7	587.2
37.5°	969.1	875.0	692.7	564.2	521.8
40°	925.5	818.8	628.5	500.0	462.2
42.5°	880.8	762.6	564.2	443.8	411.7
45°	830.3	709.9	503.5	391.1	361.2
47.5°	783.3	652.5	448.4	344.0	316.5
50°	731.7	596.3	389.9	300.5	272.9
52.5°	683.5	539.0	341.8	254.6	237.4
55°	633.0	481.7	293.6	222.5	216.7
57.5°	579.1	425.5	251.2	199.5	192.7
60°	531.0	371.6	207.6	178.9	173.2
62.5°	477.1	317.7	180.0	159.4	153.7
65°	426.6	266.1	157.1	138.8	134.2
67.5°	376.2	219.0	135.3	120.4	115.8
70°	326.8	174.3	114.7	103.2	99.8
72.5°	272.9	131.9	96.3	87.2	84.9
75°	225.9	103.2	78.0	71.1	68.8
77.5°	176.6	78.0	60.8	56.2	55.0
80°	129.6	56.2	45.9	42.4	41.3
82.5°	88.3	37.8	32.1	29.8	28.7
85°	50.5	20.6	19.5	17.2	17.2
87.5°	19.5	8.0	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)