

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: P242273

Luminaire Tested: **S122DR-S1005D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S1005D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3197.2 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

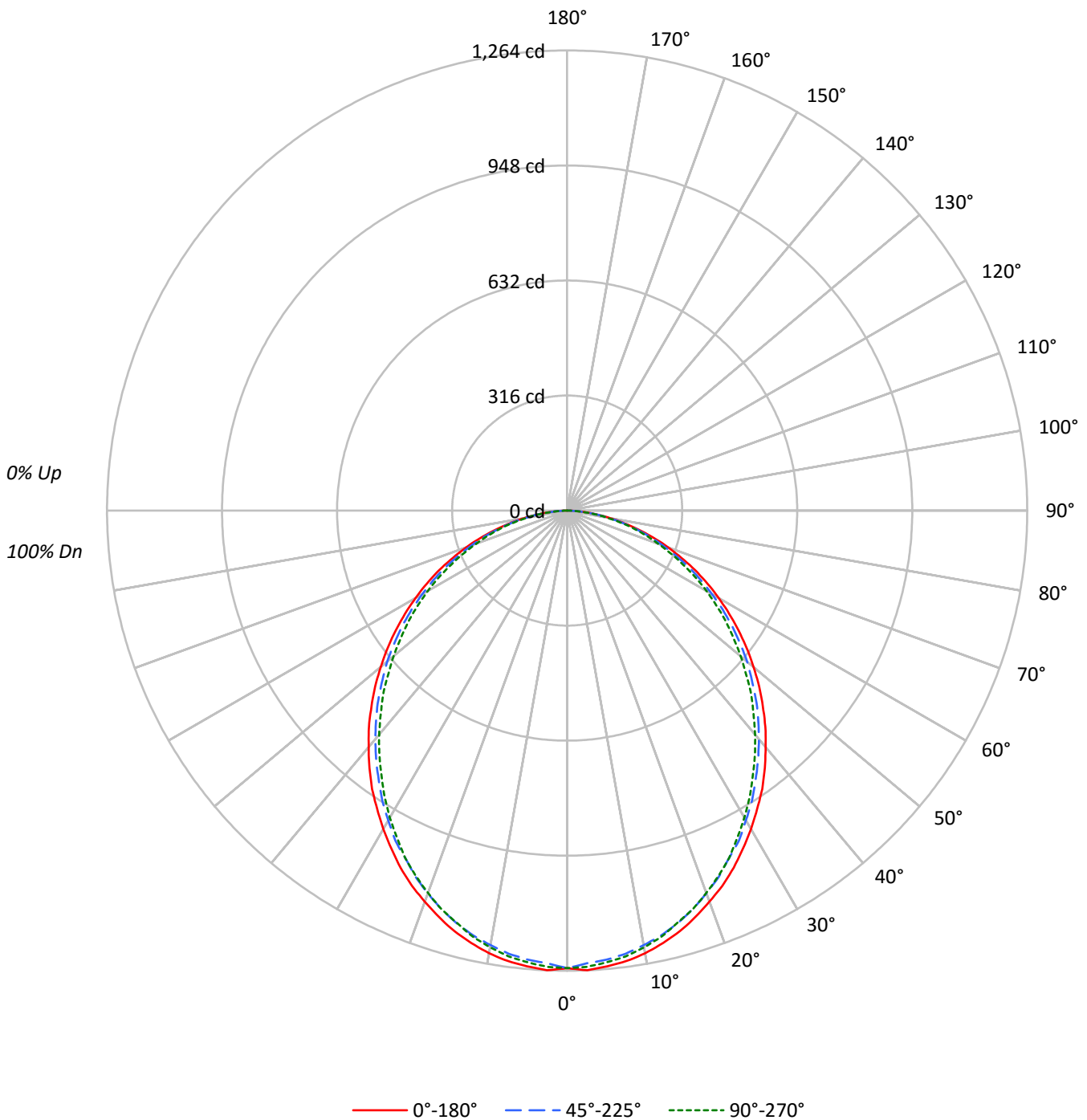
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23937	23937	23937
5°	24029	23681	23820
10°	23885	23442	23558
15°	23591	23137	23113
20°	23171	22680	22656
25°	22755	22120	22120
30°	22219	21607	21420
35°	21718	20988	20679
40°	21093	20372	19979
45°	20473	19759	19268
50°	19801	19122	18441
55°	19102	18378	17697
60°	18320	17493	16850
65°	17483	16609	15847
70°	16418	15544	14803
75°	14940	14314	13961
80°	13251	12856	12198
85°	10818	10294	9245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.7
10°-20°	332.8	10.4
20°-30°	489.0	15.3
30°-40°	568.0	17.8
40°-50°	567.3	17.7
50°-60°	494.7	15.5
60°-70°	365.6	11.4
70°-80°	206.9	6.5
80°-90°	54.6	1.7
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°	940.1	29.4
0°-40°	1508.1	47.2
0°-60°	2570.0	80.4
0°-90°	3197.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1257	1252	1238	1248	1246	119
15°	1196	1189	1173	1178	1172	337
25°	1083	1073	1052	1055	1052	498
35°	934	922	903	895	889	583
45°	760	752	734	720	715	587
55°	575	568	553	539	533	514
65°	388	381	368	358	352	384
75°	203	201	194	187	190	217
85°	50	48	47	44	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1263.9	1257.9	1244.6	1256.7	1254.3
5°	1256.7	1251.8	1238.5	1248.2	1245.8
7.5°	1248.2	1241.0	1227.7	1237.3	1234.9
10°	1234.9	1226.5	1212.0	1221.6	1218.0
12.5°	1216.8	1209.5	1195.0	1201.1	1198.7
15°	1196.3	1189.0	1173.3	1178.1	1172.1
17.5°	1170.9	1163.6	1147.9	1154.0	1147.9
20°	1143.1	1135.8	1118.9	1122.5	1117.7
22.5°	1115.3	1104.4	1088.7	1088.7	1086.3
25°	1082.7	1073.0	1052.5	1054.9	1052.5
27.5°	1046.4	1038.0	1022.3	1018.6	1012.6
30°	1010.2	1000.5	982.4	978.8	973.9
32.5°	971.5	964.3	944.9	937.7	932.8
35°	934.0	922.0	902.6	895.4	889.3
37.5°	891.8	880.9	861.5	853.1	847.0
40°	848.3	838.6	819.3	808.4	803.5
42.5°	806.0	796.3	777.0	764.9	757.6
45°	760.0	751.6	733.5	720.2	715.3
47.5°	715.3	706.9	687.5	674.3	667.0
50°	668.2	662.2	645.3	628.3	622.3
52.5°	622.3	613.8	598.1	584.8	576.4
55°	575.2	567.9	553.4	538.9	532.9
57.5°	528.0	522.0	506.3	491.8	487.0
60°	480.9	476.1	459.2	445.9	442.3
62.5°	435.0	426.5	414.5	402.4	397.5
65°	387.9	380.6	368.5	357.7	351.6
67.5°	339.5	333.5	322.6	314.2	309.3
70°	294.8	290.0	279.1	270.7	265.8
72.5°	248.9	244.1	238.0	229.6	226.0
75°	203.0	200.6	194.5	187.3	189.7
77.5°	161.9	157.1	154.7	151.0	147.4
80°	120.8	119.6	117.2	113.6	111.2
82.5°	82.2	82.2	81.0	76.1	76.1
85°	49.5	48.3	47.1	43.5	42.3
87.5°	21.8	19.3	16.9	13.3	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)