

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: P33911

Luminaire Tested: **S122RDW-135-0048-1D-UDD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P33911
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDW-135-0048-1D-UDD-1-W
Description: NEORAY DIRECT- INDIRECT 2" FIXTURE WITH REGRESSED DIFFUSE
LENS.LL1
Light Source: [117] NICHIA 3500K LED
Nichia 757D
Ballast/Driver: [1] OSRAM SYLVANIA ELECTRONIC DRIVER
OT50WPRG1400C

Summary

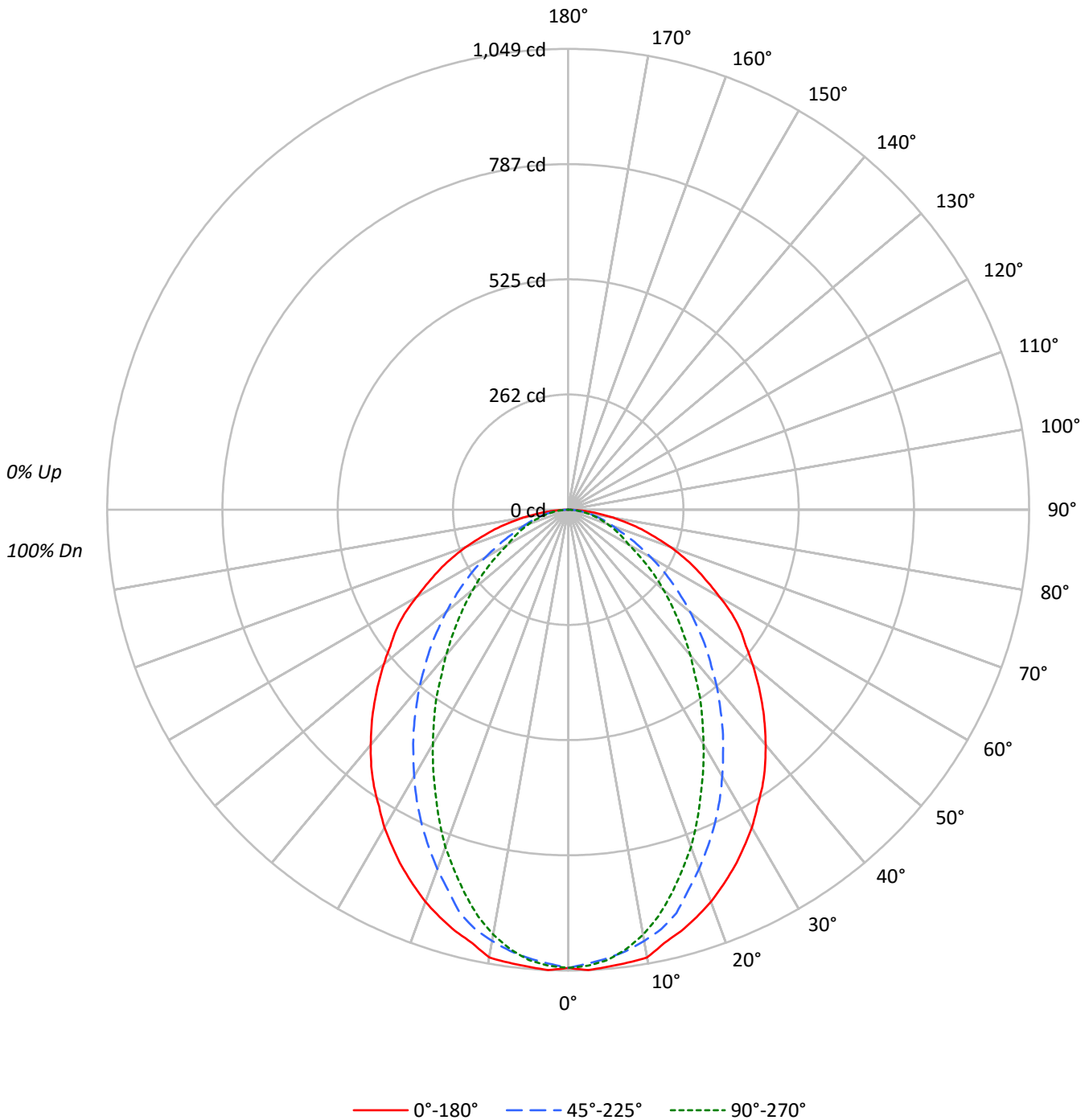
Lumens per Lamp: N/A
Luminaire Lumens: 2074.7 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.12
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
Input Voltage (V): 120.02
Input Current (A_{in}): 0.2369
Voltage Rise (V): NR
Power Factor: 0.9973
Total Harmonic Distortion (THDi): 7.37
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	43	38	48	42	37	47	41	37	35
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16840	16840	16840
5°	16921	16613	16678
10°	16969	16346	16100
15°	16598	15896	15144
20°	16323	14948	14038
25°	15962	14056	12720
30°	15586	13069	11484
35°	15177	12082	10309
40°	14733	11086	9105
45°	14248	10115	8060
50°	13765	9093	7083
55°	13484	8107	6137
60°	12884	7040	5134
65°	12340	5960	4814
70°	11707	5051	4485
75°	10792	4679	4117
80°	9577	4184	3719
85°	8151	3705	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	4.7
10°-20°	266.5	12.8
20°-30°	367.3	17.7
30°-40°	393.0	18.9
40°-50°	358.3	17.3
50°-60°	282.4	13.6
60°-70°	186.0	9.0
70°-80°	97.1	4.7
80°-90°	26.2	1.3
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°	731.6	35.3
0°-40°	1124.6	54.2
0°-60°	1765.3	85.1
0°-90°	2074.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1044	1038	1025	1033	1029	99
15°	993	978	951	922	906	280
25°	896	862	789	739	714	412
35°	770	712	613	545	523	481
45°	624	551	443	375	353	482
55°	479	392	288	235	218	426
65°	323	239	156	129	126	319
75°	173	102	75	68	66	182
85°	44	22	20	19	18	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043	1043	1043	1043	1043
2.5°	1049	1044	1034	1042	1039
5°	1044	1038	1025	1033	1029
7.5°	1040	1031	1013	1016	1009
10°	1035	1024	997	990	982
12.5°	1010	1004	978	958	948
15°	993	978	951	922	906
17.5°	972	955	908	880	861
20°	950	926	870	839	817
22.5°	923	897	830	791	766
25°	896	862	789	739	714
27.5°	866	827	746	691	665
30°	836	790	701	641	616
32.5°	801	752	656	590	568
35°	770	712	613	545	523
37.5°	736	673	568	499	473
40°	699	632	526	456	432
42.5°	662	592	482	412	391
45°	624	551	443	375	353
47.5°	586	512	401	337	317
50°	548	472	362	302	282
52.5°	510	432	324	267	250
55°	479	392	288	235	218
57.5°	442	354	253	204	187
60°	399	314	218	171	159
62.5°	358	277	185	147	142
65°	323	239	156	129	126
67.5°	285	203	126	113	110
70°	248	168	107	97	95
72.5°	207	133	91	82	80
75°	173	102	75	68	66
77.5°	136	74	59	54	53
80°	103	54	45	42	40
82.5°	69	37	31	30	29
85°	44	22	20	19	18
87.5°	18	10	9	8	8
90°	0	0	0	0	0

(END OF REPORT)