

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1036158

Luminaire Tested: S125RDIW-B850D770UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036158
REPORT IS A COMBINATION OF REPORTS P1007010 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D770UB40-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

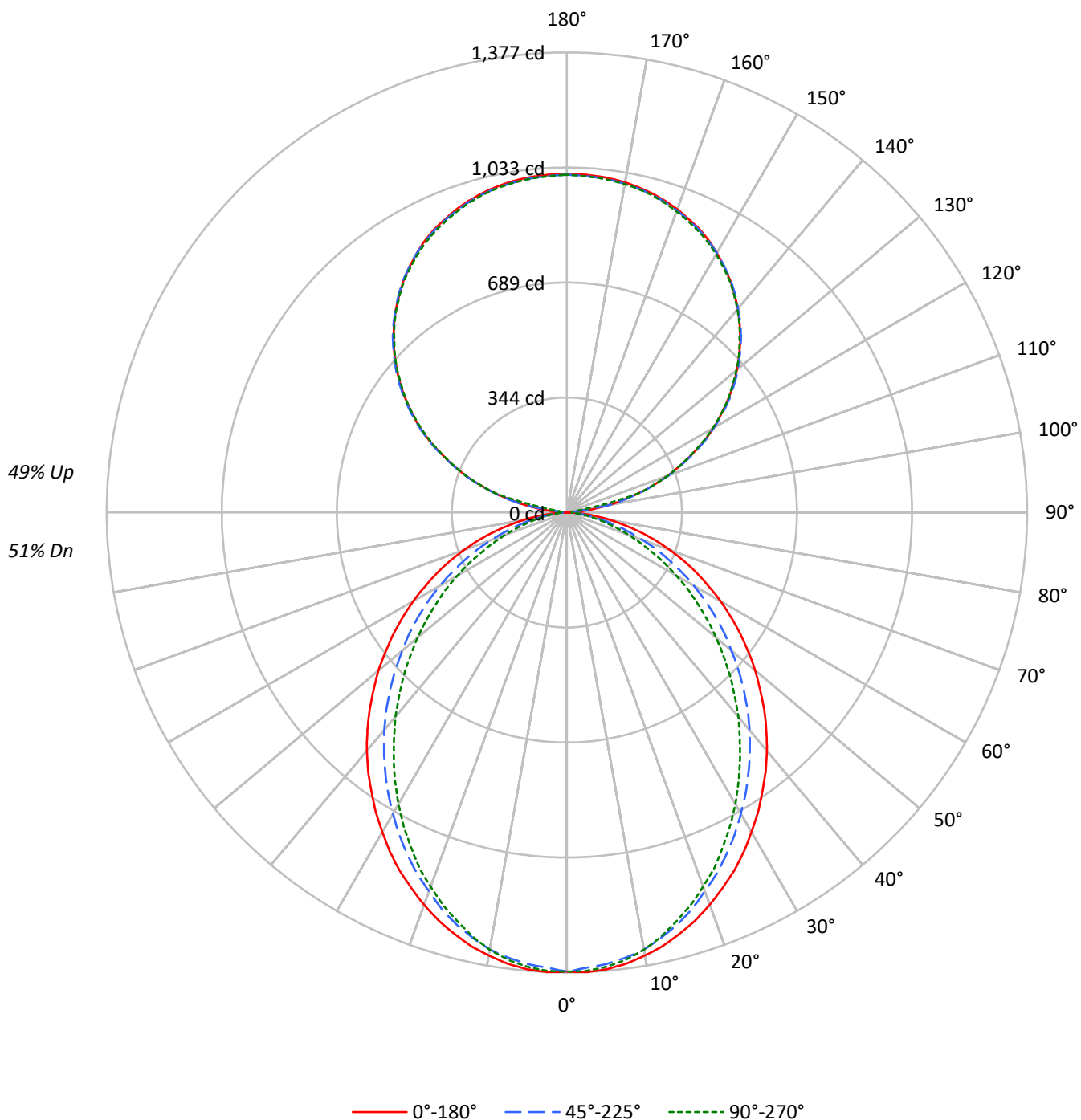
Lumens per Lamp: N/A
Luminaire Lumens: 6354.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
Input Voltage (V):
Input Current (Ain): 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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	49	49	44
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	41	41	37
3	82	73	65	60	75	67	61	56	58	53	49	49	45	42	40	38	35	35	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	31	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	27	27	24
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	30	26	24	24	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	21	21	19
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	22	19	19	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	17	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8805	8805	8805
5°	8806	8586	8600
10°	8720	8369	8296
15°	8597	8066	7896
20°	8444	7703	7477
25°	8269	7346	7027
30°	8054	6955	6556
35°	7835	6558	6054
40°	7628	6150	5564
45°	7377	5710	5052
50°	7123	5242	4530
55°	6829	4782	3989
60°	6528	4255	3428
65°	6169	3667	2823
70°	5750	2985	2222
75°	5172	2244	1619
80°	4359	1454	1091
85°	3265	781	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	2.0
10°-20°	361.5	5.7
20°-30°	524.1	8.2
30°-40°	597.1	9.4
40°-50°	582.0	9.2
50°-60°	489.8	7.7
60°-70°	343.3	5.4
70°-80°	176.0	2.8
80°-90°	45.4	0.7
90°-100°	34.3	0.5
100°-110°	228.2	3.6
110°-120°	410.9	6.5
120°-130°	527.4	8.3
130°-140°	567.2	8.9
140°-150°	532.4	8.4
150°-160°	430.6	6.8
160°-170°	278.5	4.4
170°-180°	96.0	1.5
0°-30°	1014.9	16.0
0°-40°	1612.1	25.4
0°-60°	2683.9	42.2
0°-90°	3248.5	51.1
90°-120°	673.4	10.6
90°-150°	2300.3	36.2
90°-180°	3106.0	48.9
0°-180°	6354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1372	1368	1357	1367	1365	130
15°	1305	1298	1277	1276	1266	368
25°	1183	1168	1129	1116	1104	545
35°	1019	994	948	918	903	638
45°	834	804	747	706	690	644
55°	633	600	542	495	478	566
65°	429	393	338	297	281	425
75°	228	197	154	131	124	241
85°	57	38	33	32	31	63
90°	1	7	12	16	18	5
95°	43	40	12	16	16	52
105°	220	223	223	223	223	233
115°	414	417	418	415	411	410
125°	588	594	594	590	588	526
135°	734	738	737	735	731	566
145°	851	852	852	853	848	532
155°	937	932	934	936	930	432
165°	988	984	985	989	983	279
175°	1011	1006	1007	1013	1006	96
180°	1011	1011	1011	1011	1011	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.3	1374.3	1374.3	1374.3	1374.3
2.5°	1377.4	1374.3	1363.9	1374.3	1373.3
5°	1372.2	1368.1	1356.7	1367.0	1365.0
7.5°	1361.9	1357.7	1344.2	1352.5	1350.4
10°	1346.3	1343.2	1328.6	1331.7	1328.6
12.5°	1328.6	1324.5	1303.7	1305.8	1300.6
15°	1304.8	1298.5	1276.7	1275.7	1266.4
17.5°	1279.8	1270.5	1244.6	1239.4	1232.1
20°	1249.7	1239.4	1206.2	1201.0	1191.6
22.5°	1216.5	1206.2	1170.9	1159.4	1152.2
25°	1183.3	1167.7	1129.3	1115.8	1104.4
27.5°	1145.9	1127.3	1086.8	1069.1	1057.7
30°	1104.4	1084.7	1041.1	1017.2	1007.9
32.5°	1063.9	1040.1	995.4	968.5	956.0
35°	1019.3	994.4	947.7	917.6	903.1
37.5°	976.8	946.7	898.9	863.6	849.1
40°	931.1	899.9	850.1	810.7	798.2
42.5°	883.3	851.2	799.3	761.9	742.2
45°	834.5	804.4	747.4	705.8	690.3
47.5°	783.7	752.5	695.5	652.9	635.3
50°	735.9	701.7	642.5	598.9	583.4
52.5°	684.0	648.7	593.7	546.0	530.4
55°	633.2	600.0	541.8	495.1	478.5
57.5°	581.3	546.0	489.9	444.3	429.7
60°	531.5	495.1	439.1	393.4	377.8
62.5°	478.5	444.3	387.2	345.7	330.1
65°	428.7	393.4	338.4	296.9	281.3
67.5°	378.9	343.6	290.6	251.2	238.7
70°	328.0	292.7	240.8	208.6	196.2
72.5°	278.2	243.9	196.2	167.1	159.9
75°	228.4	197.2	153.6	130.8	123.5
77.5°	177.5	152.6	116.3	98.6	92.4
80°	134.9	110.0	81.0	71.6	69.5
82.5°	93.4	71.6	54.0	50.9	49.8
85°	57.1	38.4	33.2	32.2	31.1
87.5°	23.9	16.6	15.6	15.6	14.5
90°	0.7	6.7	12.0	15.7	18.0
92.5°	14.2	7.5	12.0	15.7	16.5
95°	42.7	40.5	12.0	15.7	15.7
97.5°	80.2	84.7	13.5	15.0	15.7
100°	125.2	127.4	130.4	18.7	15.7
102.5°	170.9	173.9	175.4	176.9	113.9
105°	220.3	223.3	223.3	223.3	222.6
107.5°	271.3	271.3	272.8	273.5	270.5
110°	320.8	320.8	322.3	320.0	320.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	369.5	370.2	367.2	365.7
115°	413.7	417.4	418.2	415.2	410.7
117.5°	462.4	462.4	465.4	460.9	459.4
120°	507.4	506.6	508.9	507.4	503.6
122.5°	547.1	550.8	551.6	550.1	545.6
125°	588.3	593.5	593.5	590.5	588.3
127.5°	628.0	631.8	631.0	629.5	623.5
130°	664.0	667.7	668.5	666.2	662.5
132.5°	700.0	704.5	702.2	702.2	698.5
135°	733.7	738.2	736.7	735.2	730.7
137.5°	765.2	769.7	768.2	768.2	764.4
140°	795.9	797.4	796.6	798.1	793.6
142.5°	823.6	824.4	825.9	825.9	821.4
145°	850.6	852.1	852.1	852.8	848.3
147.5°	874.6	874.6	875.3	876.1	870.8
150°	897.1	895.6	897.1	898.6	892.6
152.5°	918.8	915.0	916.5	918.0	912.8
155°	936.8	932.3	933.8	936.0	930.0
157.5°	951.0	948.8	948.8	951.0	945.0
160°	966.0	961.5	962.3	965.3	959.3
162.5°	978.0	973.5	974.3	978.7	972.0
165°	988.5	984.0	984.7	989.2	983.2
167.5°	996.7	992.2	993.0	998.2	991.5
170°	1003.5	998.2	999.0	1005.0	998.2
172.5°	1008.0	1002.7	1004.2	1009.5	1002.7
175°	1011.0	1006.5	1007.2	1013.2	1006.5
177.5°	1013.2	1008.7	1009.5	1014.7	1008.7
180°	1011.0	1011.0	1011.0	1011.0	1011.0

(END OF REPORT)