

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: P1027262

Luminaire Tested: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027262
REPORT IS A COMBINATION OF REPORTS P1005733 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

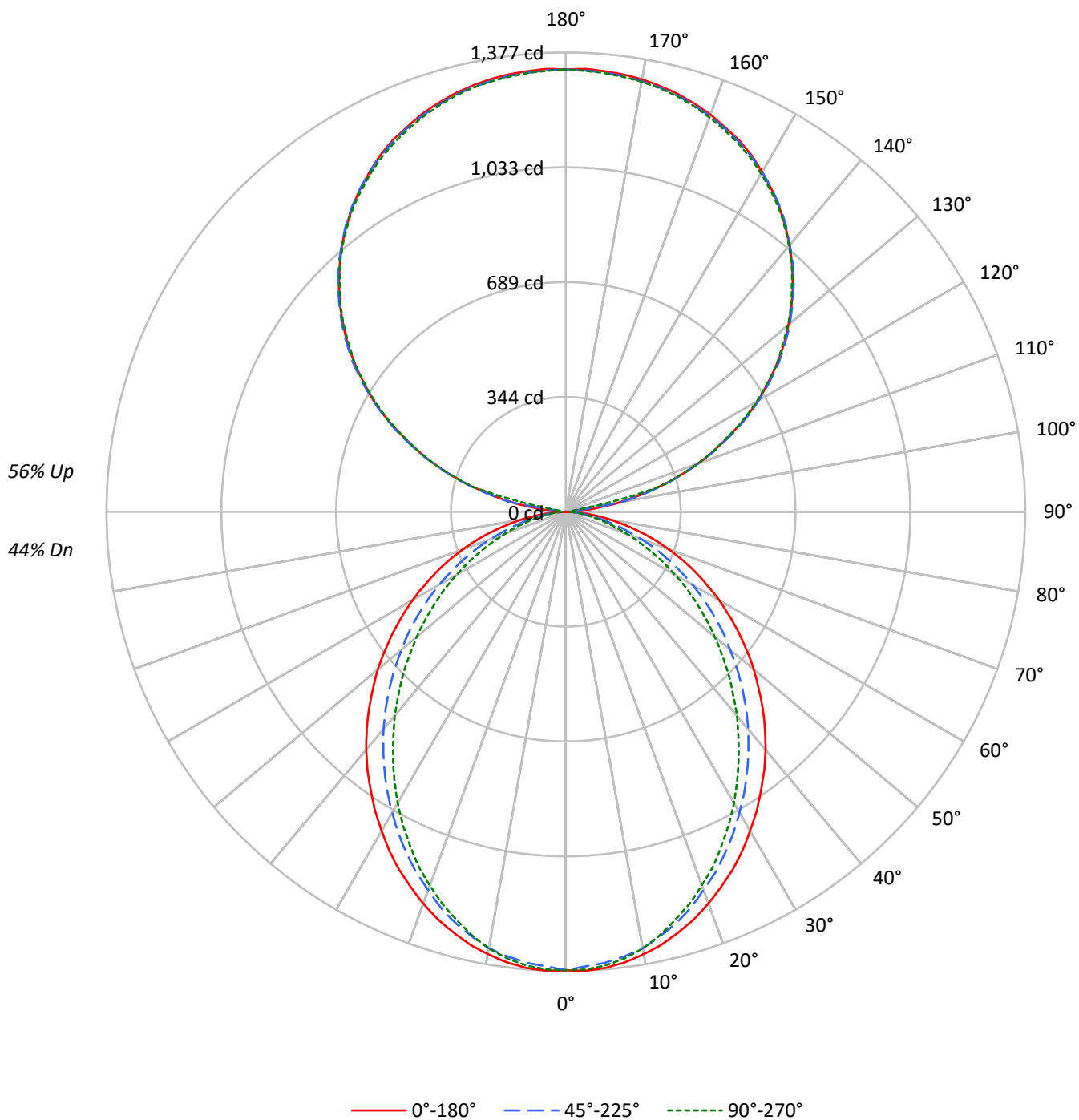
Lumens per Lamp: N/A
Luminaire Lumens: 7322.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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
RCR																				
0	106	106	106	106	97	97	97	97		80	80	80		65	65	65		51	51	51
1	97	93	89	85	88	85	82	79		71	68	66		57	56	54		45	44	43
2	88	81	75	70	81	74	69	65		62	58	55		51	48	46		40	38	37
3	81	71	64	58	74	66	59	54		55	50	47		45	42	39		36	33	32
4	74	63	55	50	67	58	51	46		49	44	40		40	36	33		32	29	27
5	68	56	48	43	62	52	45	40		44	38	34		36	32	29		29	26	24
6	62	51	43	37	57	47	40	35		39	34	30		33	29	26		26	23	21
7	58	46	38	32	53	42	35	30		36	30	26		30	26	23		24	21	19
8	54	41	34	29	49	38	32	27		33	27	24		27	23	20		22	19	17
9	50	38	30	25	46	35	29	24		30	25	21		25	21	18		20	17	15
10	47	35	28	23	43	32	26	22		28	22	19		23	19	16		19	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	1.8
10°-20°	361.5	4.9
20°-30°	524.1	7.2
30°-40°	597.1	8.2
40°-50°	582.0	7.9
50°-60°	489.8	6.7
60°-70°	343.3	4.7
70°-80°	176.0	2.4
80°-90°	45.9	0.6
90°-100°	45.0	0.6
100°-110°	299.2	4.1
110°-120°	538.9	7.4
120°-130°	691.7	9.4
130°-140°	744.0	10.2
140°-150°	698.2	9.5
150°-160°	564.8	7.7
160°-170°	365.3	5.0
170°-180°	126.0	1.7
0°-30°	1014.9	13.9
0°-40°	1612.1	22.0
0°-60°	2683.9	36.7
0°-90°	3249.0	44.4
90°-120°	883.1	12.1
90°-150°	3017.0	41.2
90°-180°	4073.0	55.6
0°-180°	7322.0	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	9	16	21	24	6
95°	56	53	16	21	21	69
105°	289	293	293	293	292	306
115°	543	548	548	544	539	538
125°	772	778	778	774	772	689
135°	962	968	966	964	958	742
145°	1116	1118	1118	1119	1113	698
155°	1229	1223	1225	1228	1220	566
165°	1296	1291	1292	1297	1290	366
175°	1326	1320	1321	1329	1320	126
180°	1326	1326	1326	1326	1326	

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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°	1.0	8.8	15.7	20.6	23.6
92.5°	18.7	9.8	15.7	20.6	21.6
95°	56.0	53.1	15.7	20.6	20.6
97.5°	105.2	111.1	17.7	19.7	20.6
100°	164.1	167.1	171.0	24.6	20.6
102.5°	224.1	228.0	230.0	232.0	149.4
105°	289.0	292.9	292.9	292.9	291.9
107.5°	355.8	355.8	357.8	358.8	354.8
110°	420.7	420.7	422.7	419.7	420.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	481.6	484.6	485.6	481.6	479.7
115°	542.6	547.5	548.5	544.5	538.6
117.5°	606.5	606.5	610.4	604.5	602.5
120°	665.4	664.4	667.4	665.4	660.5
122.5°	717.5	722.4	723.4	721.5	715.6
125°	771.6	778.5	778.5	774.5	771.6
127.5°	823.7	828.6	827.6	825.6	817.8
130°	870.9	875.8	876.8	873.8	868.9
132.5°	918.0	923.9	921.0	921.0	916.1
135°	962.3	968.2	966.2	964.2	958.3
137.5°	1003.6	1009.5	1007.5	1007.5	1002.6
140°	1043.9	1045.8	1044.8	1046.8	1040.9
142.5°	1080.2	1081.2	1083.2	1083.2	1077.3
145°	1115.6	1117.6	1117.6	1118.6	1112.7
147.5°	1147.1	1147.1	1148.0	1149.0	1142.1
150°	1176.5	1174.6	1176.5	1178.5	1170.6
152.5°	1205.1	1200.1	1202.1	1204.1	1197.2
155°	1228.6	1222.7	1224.7	1227.7	1219.8
157.5°	1247.3	1244.4	1244.4	1247.3	1239.5
160°	1267.0	1261.1	1262.1	1266.0	1258.1
162.5°	1282.7	1276.8	1277.8	1283.7	1274.8
165°	1296.5	1290.6	1291.5	1297.4	1289.6
167.5°	1307.3	1301.4	1302.4	1309.2	1300.4
170°	1316.1	1309.2	1310.2	1318.1	1309.2
172.5°	1322.0	1315.1	1317.1	1324.0	1315.1
175°	1325.9	1320.1	1321.0	1328.9	1320.1
177.5°	1328.9	1323.0	1324.0	1330.9	1323.0
180°	1325.9	1325.9	1325.9	1325.9	1325.9

(END OF REPORT)