

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: P1027778

Luminaire Tested: S125DIP-B375D1090UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027778
REPORT IS A COMBINATION OF REPORTS P1001864 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

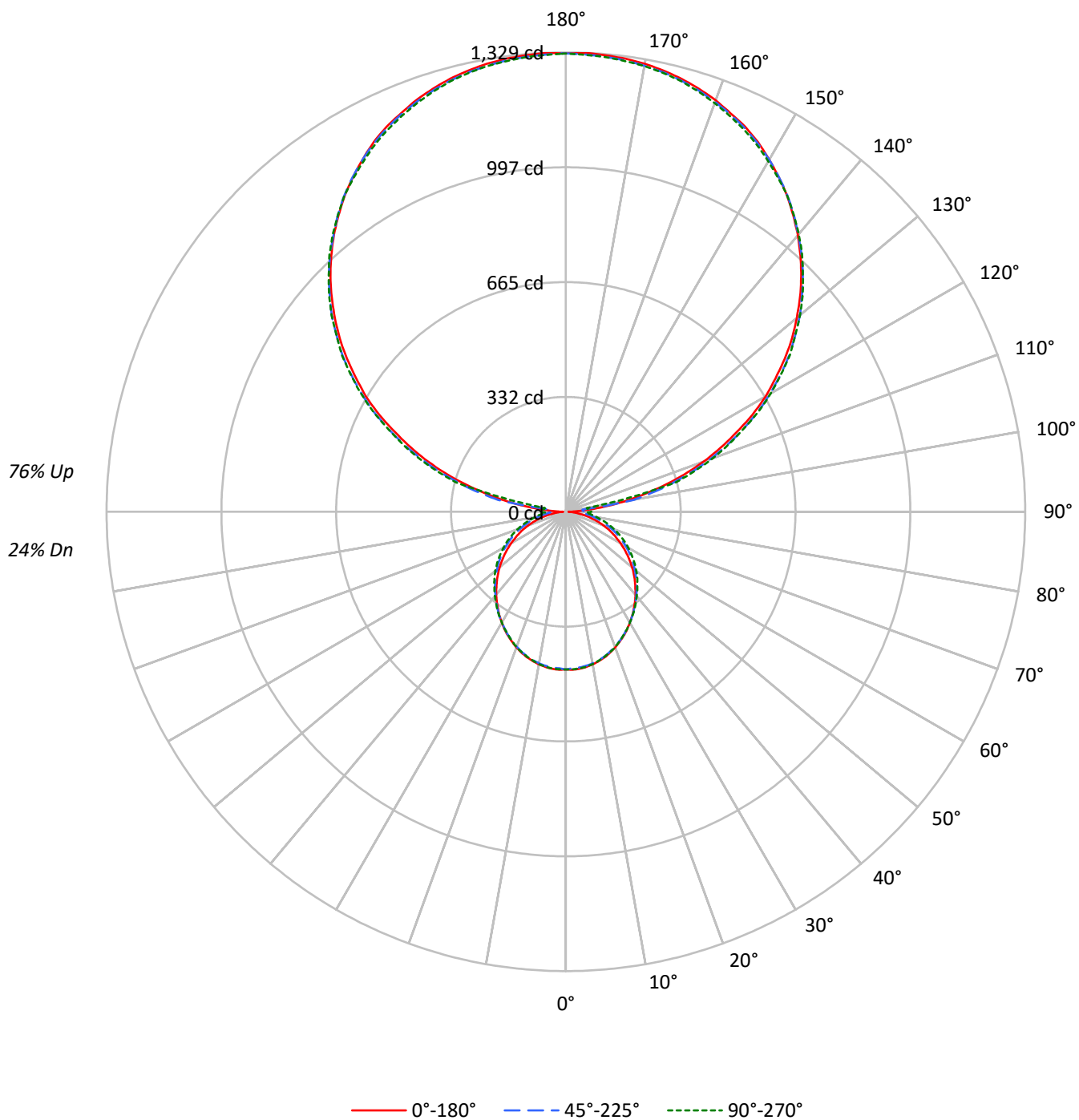
Lumens per Lamp: N/A
Luminaire Lumens: 5488.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	87	83	80	81	78	75	72	60	58	56	43	42	41	28	27	27
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	24	23	22
3	76	67	59	54	67	59	53	49	46	42	38	33	31	28	22	20	19
4	69	59	51	45	61	52	46	41	41	36	32	29	26	24	19	17	16
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14
6	58	47	39	33	51	42	35	30	32	27	24	24	20	18	16	14	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	11
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	0.8
10°-20°	122.5	2.2
20°-30°	182.2	3.3
30°-40°	215.8	3.9
40°-50°	223.1	4.1
50°-60°	205.5	3.7
60°-70°	166.1	3.0
70°-80°	111.2	2.0
80°-90°	59.4	1.1
90°-100°	77.4	1.4
100°-110°	323.1	5.9
110°-120°	554.9	10.1
120°-130°	700.7	12.8
130°-140°	747.9	13.6
140°-150°	699.0	12.7
150°-160°	564.8	10.3
160°-170°	365.3	6.7
170°-180°	126.0	2.3
0°-30°	347.9	6.3
0°-40°	563.7	10.3
0°-60°	992.3	18.1
0°-90°	1329.0	24.2
90°-120°	955.3	17.4
90°-150°	3103.0	56.5
90°-180°	4159.0	75.8
0°-180°	5488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	30	52	68	74	8
95°	62	70	48	63	66	73
105°	293	304	318	326	329	310
115°	545	553	566	570	567	541
125°	773	780	789	792	791	691
135°	963	969	970	974	970	743
145°	1116	1118	1118	1121	1117	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°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	8.2	30.3	52.4	67.6	73.7
92.5°	25.0	29.0	50.6	65.3	69.4
95°	61.8	70.5	48.3	63.1	66.2
97.5°	110.6	127.2	48.6	59.9	64.0
100°	169.0	181.4	199.6	62.6	61.3
102.5°	228.6	241.0	256.8	267.8	187.9
105°	293.0	304.1	317.5	326.4	328.6
107.5°	359.4	365.6	380.6	390.5	389.2
110°	423.8	429.2	443.7	449.2	453.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.7	491.8	504.8	508.9	510.1
115°	545.3	553.3	565.9	570.0	566.8
117.5°	608.7	611.0	626.1	627.8	628.9
120°	667.6	668.0	681.3	686.9	684.6
122.5°	719.3	724.6	735.5	740.7	737.5
125°	773.4	779.8	788.8	791.9	791.3
127.5°	825.0	829.5	836.1	840.8	835.7
130°	872.2	876.7	884.0	887.2	884.6
132.5°	918.9	924.8	926.4	932.6	929.5
135°	963.2	968.6	969.8	973.6	969.9
137.5°	1004.5	1009.9	1009.7	1015.1	1012.0
140°	1044.3	1046.2	1045.7	1052.6	1048.5
142.5°	1080.6	1081.2	1083.2	1087.2	1083.1
145°	1116.0	1117.6	1117.6	1120.8	1116.7
147.5°	1147.1	1147.1	1148.0	1149.9	1143.9
150°	1176.5	1174.6	1176.5	1178.5	1171.0
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)