

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: P1027780

Luminaire Tested: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027780
REPORT IS A COMBINATION OF REPORTS P1001866 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-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

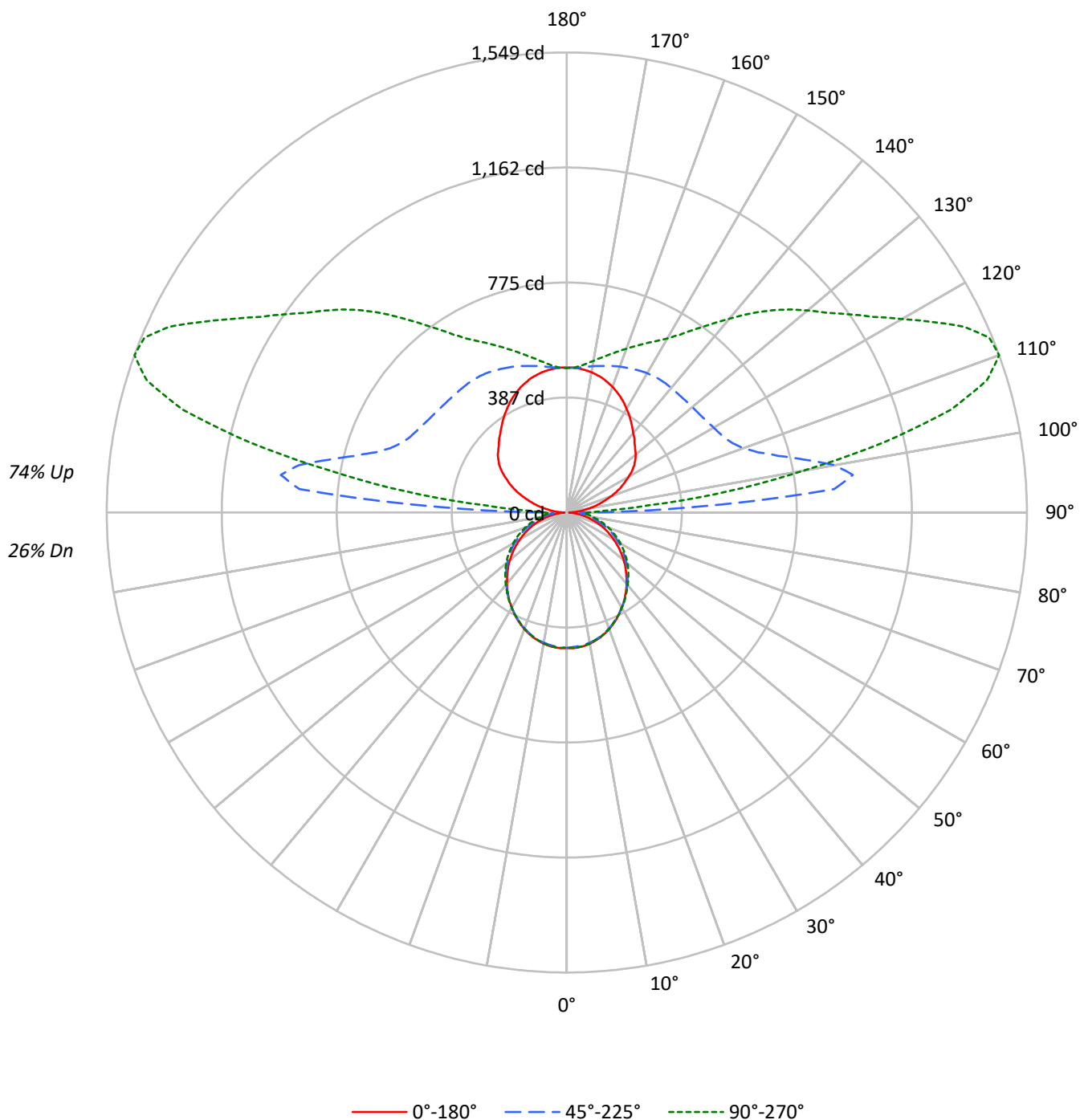
Lumens per Lamp: N/A
Luminaire Lumens: 5083.5 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1027780

CATALOG NUMBER: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1027780

CATALOG NUMBER: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

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	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	30	29	28
2	84	76	70	65	74	68	63	59	53	49	46	39	37	35	26	24	23
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10
9	46	34	27	22	41	31	25	20	25	20	17	18	15	13	13	10	9
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	10	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

TEST NUMBER: P1027780

CATALOG NUMBER: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	0.8
10°-20°	122.5	2.4
20°-30°	182.2	3.6
30°-40°	215.8	4.2
40°-50°	223.1	4.4
50°-60°	205.5	4.0
60°-70°	166.1	3.3
70°-80°	111.2	2.2
80°-90°	59.4	1.2
90°-100°	399.4	7.9
100°-110°	786.3	15.5
110°-120°	728.1	14.3
120°-130°	585.3	11.5
130°-140°	466.9	9.2
140°-150°	350.3	6.9
150°-160°	246.1	4.8
160°-170°	145.0	2.9
170°-180°	47.2	0.9
0°-30°	347.9	6.8
0°-40°	563.7	11.1
0°-60°	992.3	19.5
0°-90°	1329.0	26.1
90°-120°	1913.8	37.6
90°-150°	3316.3	65.2
90°-180°	3754.0	73.8
0°-180°	5083.5	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	73	7
95°	38	113	903	438	276	38
105°	115	166	737	1436	1339	121
115°	201	245	589	1258	1479	198
125°	277	324	559	998	1163	246
135°	323	388	548	831	961	251
145°	376	430	546	683	753	235
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

TEST NUMBER: P1027780

CATALOG NUMBER: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

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	30.4	52.4	67.6	72.7
92.5°	21.0	99.8	427.0	149.4	120.5
95°	38.2	113.2	903.3	437.6	276.5
97.5°	55.5	119.8	971.4	753.7	549.5
100°	73.7	133.2	916.0	1046.3	807.2
102.5°	93.9	149.2	820.8	1293.6	1095.9
105°	115.0	166.4	737.1	1436.3	1338.8
107.5°	135.3	185.2	674.3	1475.3	1483.9
110°	157.4	205.0	632.3	1434.3	1548.9

TEST NUMBER: P1027780

CATALOG NUMBER: S125DIP-B375D1090UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.0	224.9	606.9	1351.0	1538.9
115°	201.2	245.1	589.3	1258.4	1478.7
117.5°	220.4	265.9	578.8	1173.6	1389.4
120°	240.0	286.1	571.1	1102.4	1302.6
122.5°	260.3	305.4	564.4	1044.7	1225.7
125°	277.0	323.7	558.7	998.2	1162.6
127.5°	290.2	341.9	554.9	957.6	1104.8
130°	303.0	359.6	551.6	917.0	1058.4
132.5°	312.4	375.3	549.8	873.4	1011.8
135°	323.2	388.0	548.0	831.4	960.9
137.5°	337.0	400.3	547.6	787.8	907.6
140°	348.3	410.7	547.3	747.8	851.8
142.5°	362.0	420.1	547.4	713.0	799.8
145°	375.8	429.9	546.4	682.8	752.8
147.5°	390.1	438.8	544.4	656.8	710.3
150°	402.9	446.6	541.5	635.8	676.5
152.5°	416.7	454.5	537.5	618.6	650.6
155°	428.5	460.9	532.6	601.9	628.0
157.5°	439.3	467.3	527.7	586.2	607.3
160°	450.1	472.2	522.8	570.4	586.7
162.5°	458.9	477.1	516.9	556.2	568.0
165°	467.8	480.6	511.0	542.0	550.3
167.5°	473.7	482.5	505.1	528.7	533.6
170°	479.6	485.0	500.2	515.9	518.9
172.5°	483.5	486.0	494.3	505.6	505.1
175°	486.4	486.4	490.4	496.3	494.3
177.5°	488.4	486.4	487.4	490.4	487.4
180°	487.4	487.4	487.4	487.4	487.4

(END OF REPORT)