

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: P1027779

Luminaire Tested: S125DIP-B375D1090UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027779
REPORT IS A COMBINATION OF REPORTS P1001865 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-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

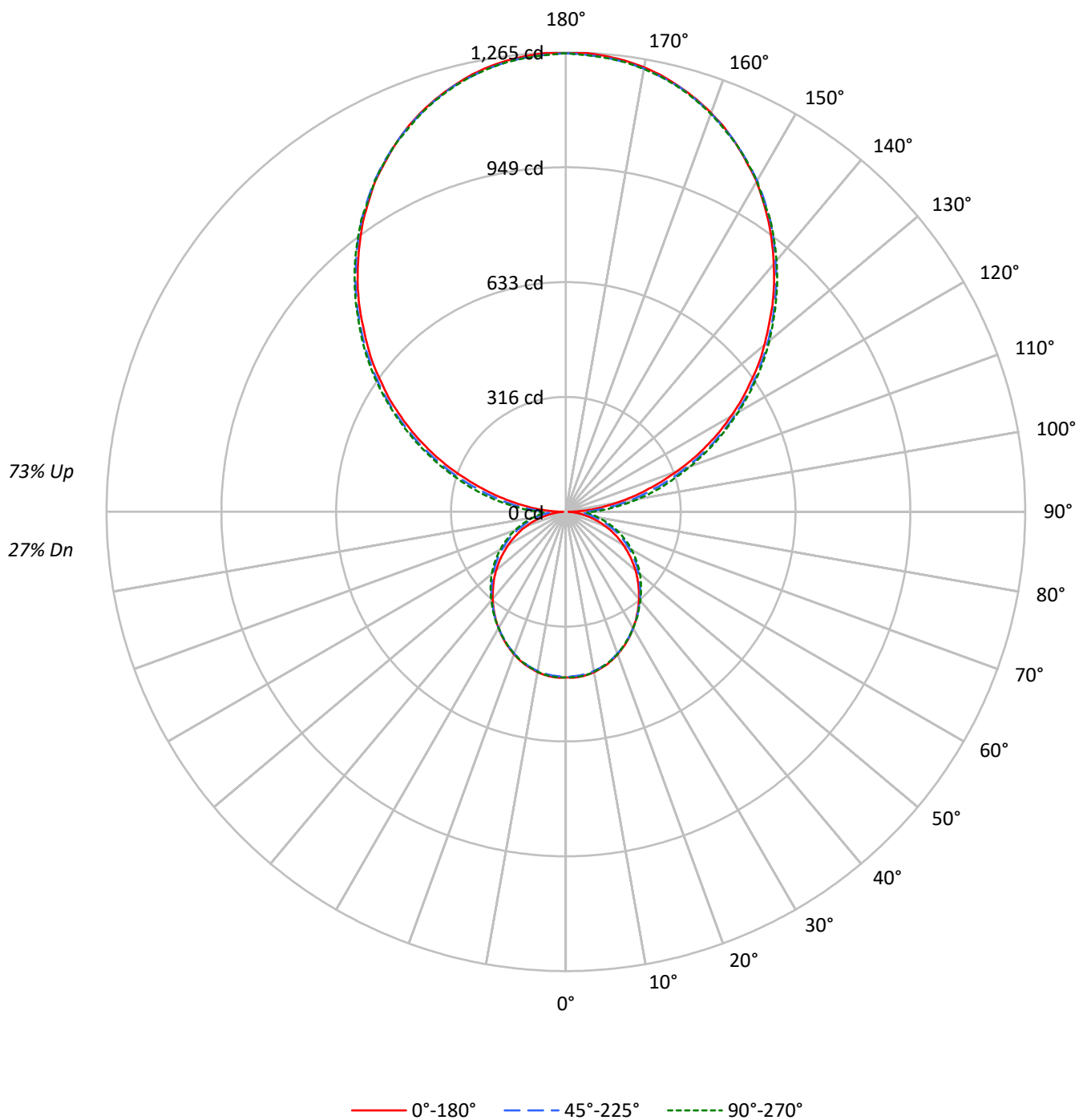
Lumens per Lamp: N/A
Luminaire Lumens: 4939.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27		
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	29	29	22		
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18		
3	76	67	60	54	68	60	54	49	47	42	39	35	32	29	23	21	20	15		
4	70	59	51	45	62	53	46	41	41	37	33	31	27	25	21	19	17	13		
5	64	52	45	39	57	47	40	35	37	32	28	27	24	21	18	16	15	11		
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10		
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	9		
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10	8		
9	46	35	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9	7		
10	43	32	25	20	39	28	22	18	23	18	15	17	14	12	12	10	8	6		

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	0.9
10°-20°	122.5	2.5
20°-30°	182.2	3.7
30°-40°	215.8	4.4
40°-50°	223.1	4.5
50°-60°	205.5	4.2
60°-70°	166.1	3.4
70°-80°	111.2	2.3
80°-90°	59.4	1.2
90°-100°	116.3	2.4
100°-110°	273.3	5.5
110°-120°	439.0	8.9
120°-130°	566.0	11.5
130°-140°	628.0	12.7
140°-150°	612.5	12.4
150°-160°	513.8	10.4
160°-170°	341.6	6.9
170°-180°	119.5	2.4
0°-30°	347.9	7.0
0°-40°	563.7	11.4
0°-60°	992.3	20.1
0°-90°	1329.0	26.9
90°-120°	828.6	16.8
90°-150°	2635.1	53.4
90°-180°	3610.0	73.1
0°-180°	4939.0	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	9
95°	70	83	108	125	130	71
105°	228	240	259	274	280	243
115°	426	433	447	454	456	422
125°	620	625	635	640	642	555
135°	805	810	814	820	818	620
145°	974	978	981	983	982	609
155°	1114	1114	1115	1119	1114	513
165°	1212	1210	1211	1214	1209	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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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°	35.8	53.6	78.1	94.8	99.9
95°	69.7	83.2	108.3	125.0	130.1
97.5°	103.7	115.3	143.9	159.1	163.3
100°	142.5	151.9	178.9	197.2	201.9
102.5°	184.3	197.7	216.4	235.3	240.9
105°	228.0	240.2	259.4	274.2	280.4
107.5°	275.8	286.9	304.8	316.7	319.4
110°	325.4	335.7	351.2	362.6	364.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.5	382.6	398.5	407.6	408.7
115°	426.2	433.2	446.8	453.9	455.6
117.5°	476.8	480.1	493.3	501.8	501.0
120°	524.0	530.3	541.6	549.2	547.8
122.5°	574.7	576.1	588.9	595.0	594.8
125°	619.9	625.3	635.3	640.4	641.7
127.5°	669.5	672.0	680.6	686.3	687.1
130°	713.7	718.2	726.5	731.7	732.0
132.5°	757.5	766.4	769.9	775.1	774.0
135°	804.7	810.1	814.3	820.1	818.3
137.5°	848.9	854.3	858.1	864.5	861.3
140°	890.7	895.6	899.0	905.9	902.8
142.5°	932.9	936.4	940.4	945.4	942.2
145°	974.2	977.7	980.7	982.9	981.7
147.5°	1012.1	1015.1	1017.0	1020.9	1013.9
150°	1050.4	1049.4	1053.4	1053.4	1051.8
152.5°	1081.9	1083.8	1084.8	1087.8	1083.8
155°	1114.3	1114.3	1115.3	1119.2	1114.3
157.5°	1143.8	1141.8	1142.8	1146.7	1139.9
160°	1169.3	1166.4	1167.4	1171.3	1166.4
162.5°	1191.9	1190.0	1190.0	1194.9	1189.0
165°	1211.6	1209.6	1210.6	1214.5	1208.6
167.5°	1229.3	1225.3	1225.3	1231.2	1225.3
170°	1243.0	1239.1	1239.1	1245.0	1238.1
172.5°	1252.9	1248.9	1248.9	1254.8	1248.9
175°	1259.7	1255.8	1255.8	1261.7	1254.8
177.5°	1264.6	1260.7	1259.7	1265.6	1258.7
180°	1262.7	1262.7	1262.7	1262.7	1262.7

(END OF REPORT)