

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: P1011392

Luminaire Tested: S123DIP-B1165D585UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011392
REPORT IS A COMBINATION OF REPORTS P989536 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D585UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

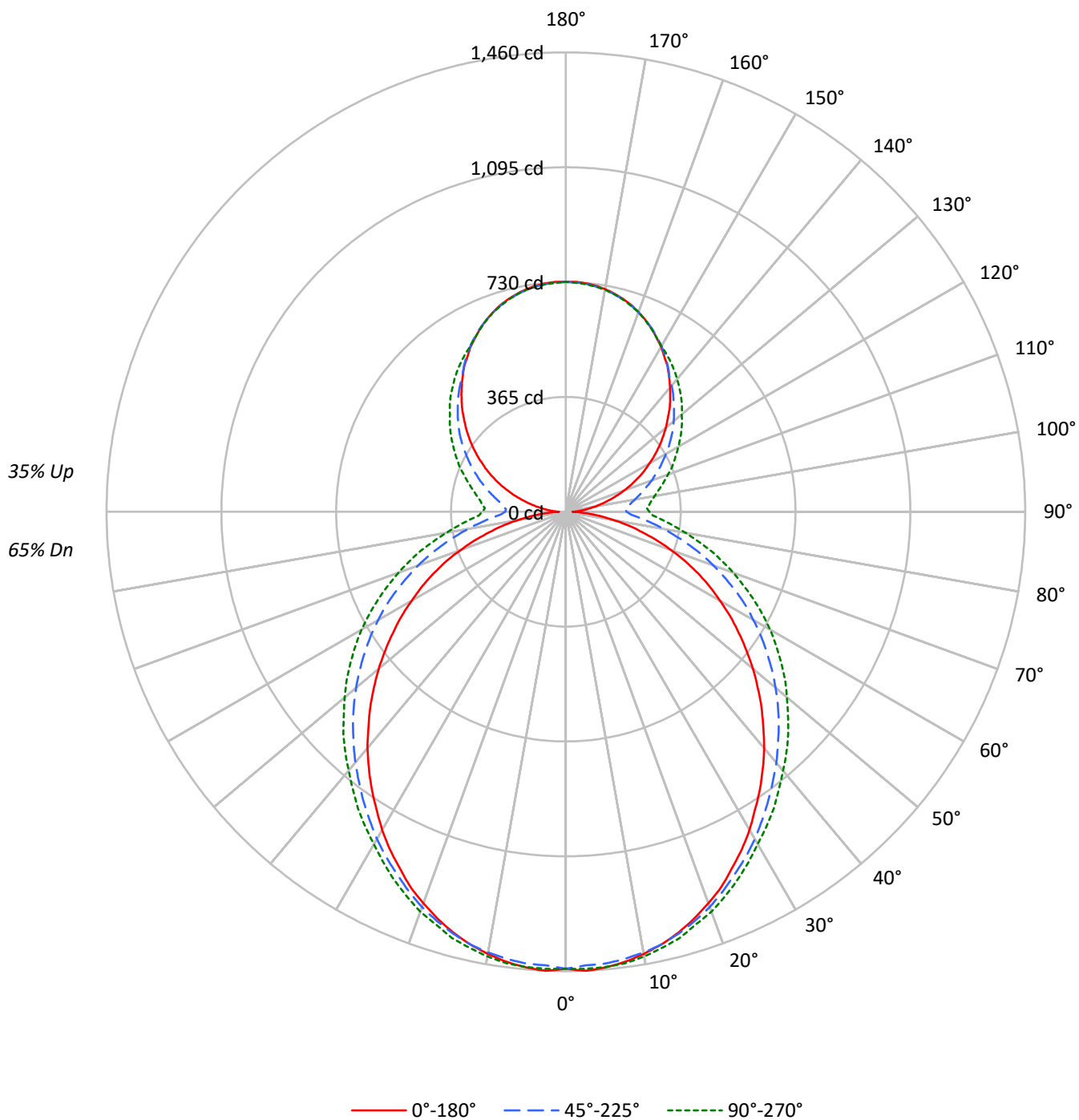
Lumens per Lamp: N/A
Luminaire Lumens: 6907.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	90	86	93	89	85	81	78	75	72	69	66	64	59	58	56
2	90	82	75	69	84	77	71	66	68	63	59	59	56	52	52	49	46
3	82	72	64	57	77	67	60	54	59	54	49	52	48	44	45	42	39
4	75	63	55	48	70	60	52	46	53	46	41	46	41	37	40	36	33
5	69	56	47	41	64	53	45	39	47	41	36	41	36	32	36	32	29
6	63	50	42	36	59	48	40	34	42	36	31	37	32	28	33	28	25
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22
8	54	41	33	28	51	39	32	26	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	29	23	20	25	21	18
10	47	35	27	22	44	33	26	21	30	24	20	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15632	15632	15632
5°	15675	15174	15162
10°	15529	14763	14650
15°	15323	14310	14108
20°	15032	13803	13526
25°	14672	13234	12922
30°	14306	12718	12317
35°	13893	12177	11822
40°	13500	11682	11301
45°	13063	11204	10872
50°	12632	10728	10406
55°	12154	10242	9976
60°	11687	9744	9537
65°	11204	9214	9022
70°	10484	8617	8492
75°	9567	7939	7945
80°	8502	7252	7320
85°	7444	6697	6873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.0
10°-20°	392.8	5.7
20°-30°	587.3	8.5
30°-40°	701.2	10.2
40°-50°	733.7	10.6
50°-60°	688.5	10.0
60°-70°	575.1	8.3
70°-80°	411.2	6.0
80°-90°	246.2	3.6
90°-100°	200.8	2.9
100°-110°	255.4	3.7
110°-120°	317.8	4.6
120°-130°	361.9	5.2
130°-140°	377.7	5.5
140°-150°	356.3	5.2
150°-160°	296.6	4.3
160°-170°	197.5	2.9
170°-180°	69.1	1.0
0°-30°	1117.9	16.2
0°-40°	1819.1	26.3
0°-60°	3241.3	46.9
0°-90°	4473.9	64.8
90°-120°	774.0	11.2
90°-150°	1869.9	27.1
90°-180°	2433.0	35.2
0°-180°	6907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1454	1451	1441	1454	1452	138
15°	1384	1389	1388	1403	1402	390
25°	1250	1266	1270	1291	1291	576
35°	1076	1101	1122	1145	1152	673
45°	880	918	957	987	1000	678
55°	671	723	780	823	835	601
65°	464	525	595	642	658	458
75°	252	326	405	457	476	269
85°	78	157	240	294	310	80
90°	21	104	193	249	266	17
95°	51	117	199	250	266	51
105°	142	181	254	298	314	151
115°	252	272	328	367	379	250
125°	362	363	408	439	448	323
135°	466	468	485	511	518	359
145°	564	563	565	577	581	352
155°	643	643	644	646	642	296
165°	701	699	699	702	698	198
175°	729	727	727	730	726	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.3	1452.3	1452.3	1452.3	1452.3
2.5°	1460.3	1455.5	1442.8	1455.5	1453.9
5°	1453.9	1450.8	1441.3	1453.9	1452.3
7.5°	1442.8	1442.8	1433.4	1449.2	1447.6
10°	1427.0	1430.2	1422.3	1438.1	1434.9
12.5°	1408.0	1412.8	1408.0	1422.3	1419.1
15°	1384.3	1389.1	1387.5	1403.3	1401.7
17.5°	1355.8	1365.3	1363.7	1378.0	1374.8
20°	1324.2	1333.7	1336.8	1351.1	1352.7
22.5°	1291.0	1300.5	1305.2	1324.2	1322.6
25°	1249.8	1265.7	1270.4	1291.0	1291.0
27.5°	1210.3	1227.7	1237.2	1254.6	1256.2
30°	1167.6	1188.1	1200.8	1219.8	1219.8
32.5°	1120.1	1143.8	1161.2	1181.8	1186.6
35°	1075.8	1101.1	1121.7	1145.4	1151.7
37.5°	1028.3	1056.8	1080.6	1107.4	1112.2
40°	980.9	1009.4	1041.0	1067.9	1074.2
42.5°	928.7	965.1	998.3	1028.3	1037.8
45°	879.6	917.6	957.2	987.2	999.9
47.5°	827.4	870.1	914.4	947.7	957.2
50°	776.8	821.1	870.1	906.5	917.6
52.5°	723.0	770.5	825.8	863.8	878.0
55°	670.8	723.0	780.0	822.7	835.3
57.5°	620.2	674.0	735.7	778.4	792.6
60°	566.4	623.3	688.2	732.5	749.9
62.5°	515.8	574.3	643.9	688.2	704.0
65°	463.5	525.2	594.9	642.3	658.1
67.5°	411.3	476.2	545.8	598.0	610.7
70°	356.0	424.0	499.9	550.6	566.4
72.5°	305.3	373.4	452.5	504.7	520.5
75°	251.5	325.9	405.0	457.2	476.2
77.5°	205.7	280.0	359.1	414.5	428.7
80°	156.6	234.1	316.4	370.2	386.0
82.5°	113.9	193.0	276.9	330.7	346.5
85°	77.5	156.6	240.5	294.3	310.1
87.5°	47.5	126.6	207.3	261.0	276.9
90°	21.2	104.4	192.6	248.7	265.6
92.5°	36.2	107.7	190.2	244.1	257.3
95°	51.3	117.0	199.1	250.5	266.3
97.5°	71.5	131.3	209.1	259.5	274.7
100°	92.3	146.4	222.0	269.6	286.5
102.5°	116.6	162.6	237.7	283.7	299.1
105°	141.8	180.9	254.2	298.5	313.8
107.5°	170.1	203.9	271.1	315.5	329.1
110°	196.0	225.7	290.1	333.5	345.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.7	247.4	307.6	350.0	364.3
115°	251.8	272.5	328.3	366.9	379.0
117.5°	281.1	294.4	347.0	384.9	395.9
120°	306.5	317.8	367.1	403.0	412.9
122.5°	334.6	340.1	387.9	421.0	430.4
125°	361.7	363.4	408.2	439.1	447.9
127.5°	388.1	390.0	428.4	456.6	465.4
130°	414.5	417.6	447.5	475.3	480.8
132.5°	439.4	444.0	466.5	492.2	500.3
135°	466.4	468.2	485.0	511.2	518.0
137.5°	491.1	492.3	505.1	527.6	533.8
140°	515.3	518.2	523.4	546.7	550.5
142.5°	538.8	540.1	541.2	561.3	566.3
145°	563.5	563.0	564.8	576.9	580.9
147.5°	583.1	585.4	587.1	591.8	594.8
150°	605.5	606.7	607.8	607.8	607.6
152.5°	623.9	625.6	626.2	627.3	624.5
155°	643.4	643.4	644.0	646.3	642.2
157.5°	660.0	659.5	660.0	662.3	658.9
160°	675.5	674.4	674.4	677.3	675.0
162.5°	689.3	687.6	688.2	691.0	687.0
165°	700.8	699.1	699.1	702.5	698.5
167.5°	710.5	708.3	708.8	712.3	708.8
170°	718.6	716.3	716.3	720.3	716.3
172.5°	724.9	722.6	722.6	726.0	722.0
175°	728.9	726.6	726.6	730.1	726.0
177.5°	731.2	728.9	728.9	732.4	728.3
180°	730.6	730.6	730.6	730.6	730.6

(END OF REPORT)