

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: P1011393

Luminaire Tested: S123DIP-B1165D585UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011393
REPORT IS A COMBINATION OF REPORTS P989537 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-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

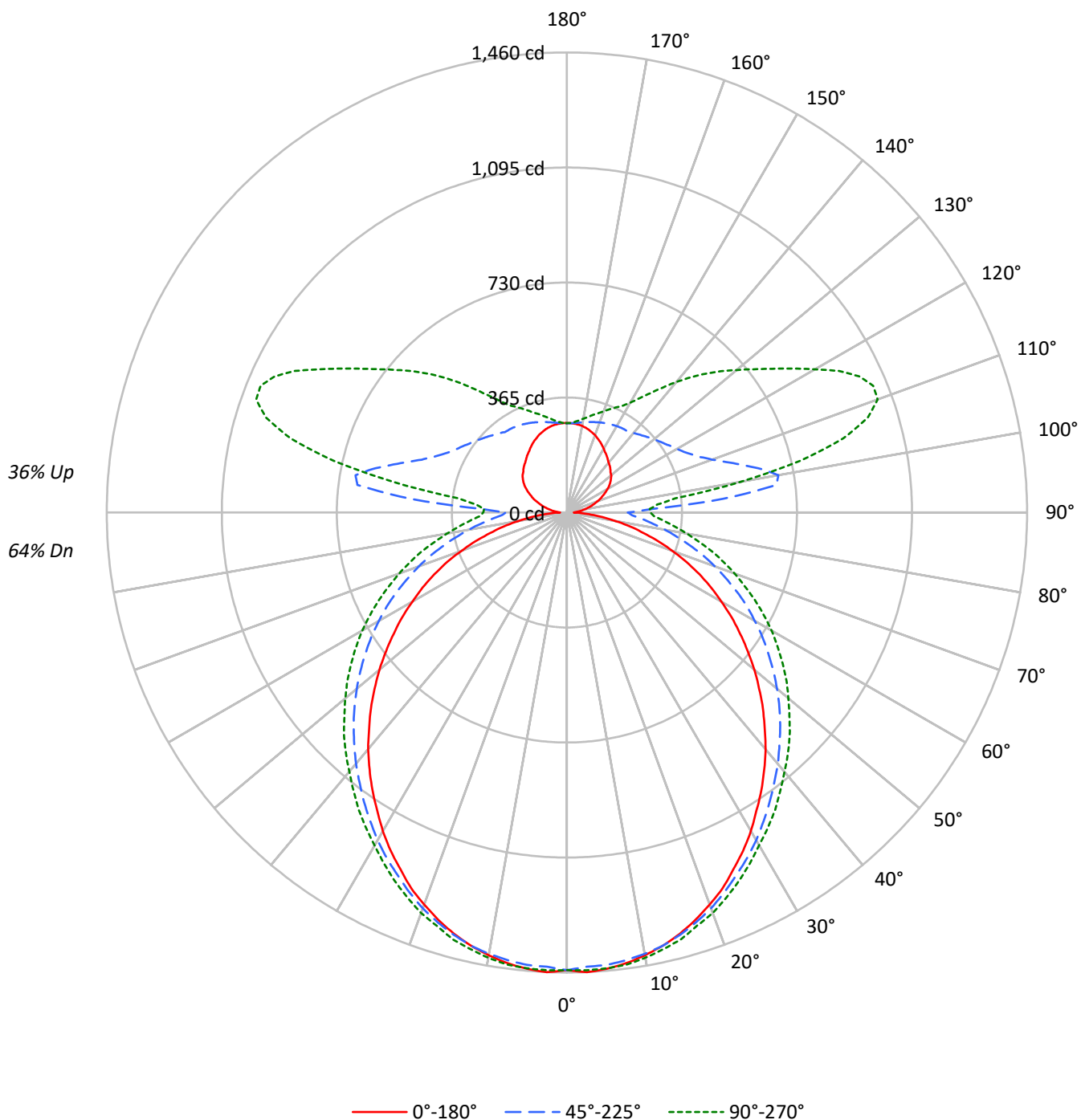
Lumens per Lamp: N/A
Luminaire Lumens: 7020.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	110	110	110	110	104	104	104	104	91	91	91		79	79	79		69
1	100	95	90	86	93	89	85	81	78	75	72		68	66	63		59
2	90	82	75	69	84	77	71	66	67	63	59		59	55	52		51
3	82	72	63	57	76	67	60	54	59	53	49		52	47	43		45
4	75	63	55	48	70	59	52	46	52	46	41		46	41	37		40
5	69	56	47	41	64	53	45	39	47	40	35		41	36	32		36
6	63	50	42	35	59	47	40	34	42	36	31		37	32	28		32
7	58	45	37	31	55	43	35	30	38	32	27		34	28	24		29
8	54	41	33	27	51	39	32	26	35	28	24		31	26	22		27
9	51	38	30	24	47	36	28	23	32	26	22		28	23	20		25
10	47	35	27	22	44	33	26	21	29	23	19		26	21	18		23

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	5.6
20°-30°	587.3	8.4
30°-40°	701.2	10.0
40°-50°	733.7	10.5
50°-60°	688.5	9.8
60°-70°	575.1	8.2
70°-80°	411.2	5.9
80°-90°	246.3	3.5
90°-100°	314.8	4.5
100°-110°	563.3	8.0
110°-120°	514.5	7.3
120°-130°	392.7	5.6
130°-140°	295.3	4.2
140°-150°	209.9	3.0
150°-160°	143.7	2.0
160°-170°	84.4	1.2
170°-180°	27.4	0.4
0°-30°	1117.9	15.9
0°-40°	1819.1	25.9
0°-60°	3241.3	46.2
0°-90°	4473.9	63.7
90°-120°	1392.7	19.8
90°-150°	2290.6	32.6
90°-180°	2546.0	36.3
0°-180°	7020.0	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°	22	105	193	249	265	16
95°	37	142	497	305	288	34
105°	79	149	580	970	907	84
115°	126	174	437	896	1022	125
125°	168	198	380	681	795	150
135°	195	230	344	539	623	151
145°	220	250	321	416	463	138
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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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°	21.7	105.0	193.1	248.6	265.0
92.5°	27.6	121.4	272.8	254.7	263.0
95°	36.9	142.5	496.9	305.0	288.1
97.5°	46.8	145.4	670.5	444.2	347.0
100°	56.7	145.0	681.0	705.8	559.1
102.5°	67.2	145.6	634.2	871.6	758.1
105°	79.3	149.0	580.1	969.8	907.2
107.5°	90.3	154.2	531.0	1006.0	1000.5
110°	102.5	159.6	490.4	998.0	1049.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.1	165.6	459.1	954.5	1051.7
115°	125.5	173.6	436.7	895.6	1022.3
117.5°	137.6	179.2	417.6	833.4	972.6
120°	148.6	185.0	403.3	774.0	908.7
122.5°	159.5	191.7	391.3	725.1	849.8
125°	168.3	197.8	380.0	680.6	795.0
127.5°	176.3	206.6	370.4	642.6	746.5
130°	183.7	215.8	360.8	606.6	703.4
132.5°	188.0	224.2	352.3	572.4	663.8
135°	194.9	230.2	343.8	539.0	623.0
137.5°	201.2	236.6	336.4	505.4	581.9
140°	205.9	242.4	329.4	474.0	540.7
142.5°	212.8	245.9	321.9	443.0	500.2
145°	220.2	250.5	320.8	415.8	462.6
147.5°	226.1	255.4	319.1	392.9	430.6
150°	233.6	259.4	316.8	375.0	402.0
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)